TOSHIBA

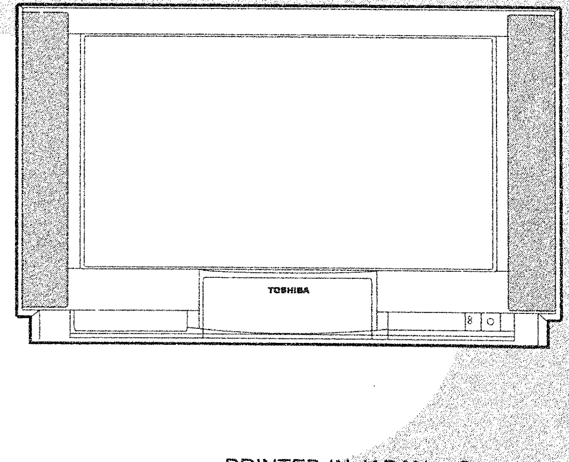
FILE NO. 030-9714

SERVICE MANUAL

COLOUR TELEVISION

C7SS Chassis

32MW7DB
32MW7DG



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CHAPTER 1 GENERAL ADJUSTMENTS

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is Ⓐ kV at zero beam current (minimum brightness) under a Ⓒ V AC power source. The high voltage must not, under any circumstances, exceed Ⓑ kV.

   Refer to table-1 for high voltage Ⓐ, Ⓑ & AC voltage Ⓒ.
   (See SETTING & ADJUSTING DATA on page 19)

   Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
2. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
3. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING : Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

SET-UP ADJUSTMENT

■ The following adjustments should be made when a complete realignment is required or a new picture tube is installed. Perform the adjustments in order as follows :

1. Color Purity
2. Convergence
3. White Balance

Note: The PURITY/CONVERGENCE MAGNET assembly and rubber wedges need mechanical positioning. Refer to figure 1.

* There are no adjustment of purity and convergence in some picture tube (Unified with purity magnet)

COLOR PURITY ADJUSTMENT

NOTE : Before attempting any purity adjustments, the receiver should be operated for at least fifteen minutes.

1. Demagnetize the picture tube and cabinet using a degaussing coil.
2. Set the brightness and contrast to maximum.
3. Use a green raster from among the built-in test signals.
4. Loosen the clamp screw holding the yoke and slide the yoke backward or forward to provide vertical green belt (zone) in the picture screen.
5. Remove the Rubber Wedges.
6. Rotate and spread the tabs of the purity magnet (See figure 2.) around the neck of the picture tube until the green belt is in the center of the screen. At the same time, enter the raster vertically.
7. Slowly move the yoke forward or backward until a uniform green screen is obtained. Tighten the clamp screw of the yoke temporarily.
8. Check the purity of the red and blue raster.

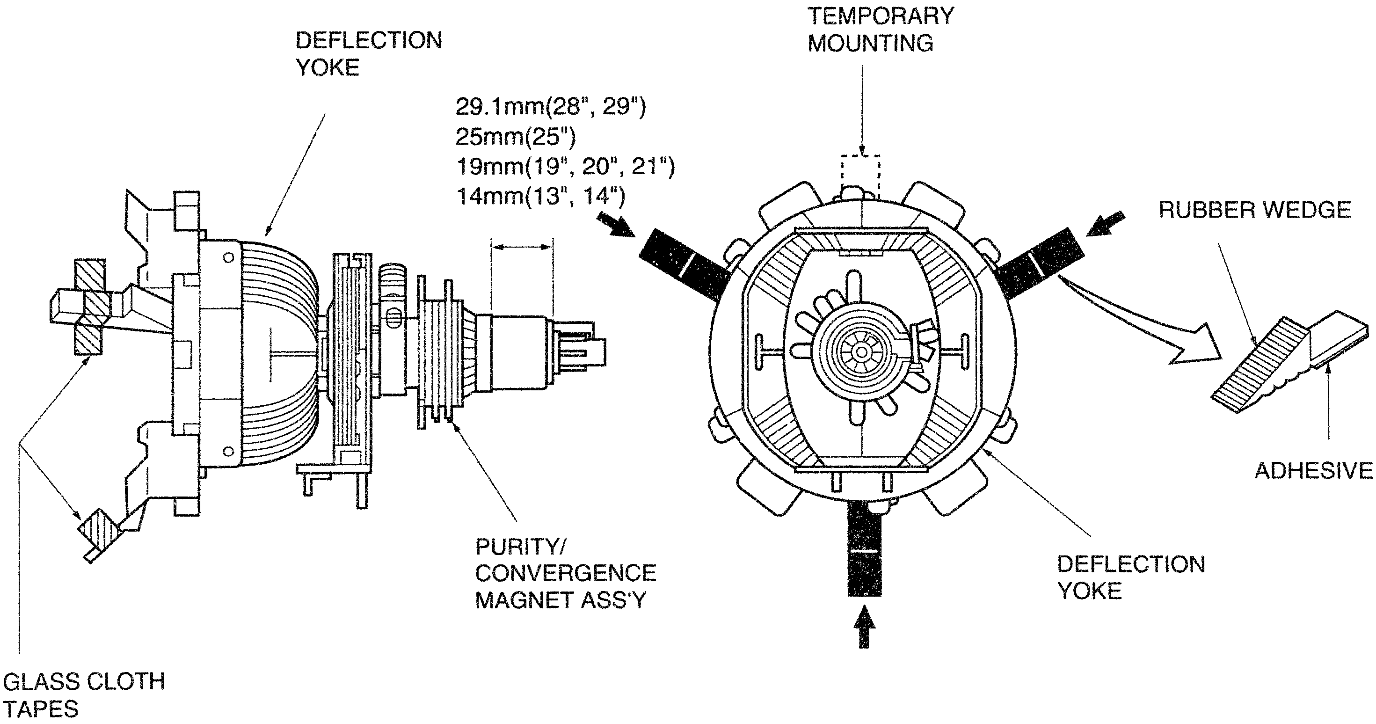

DEFLECTION YOKE
29.1mm(28", 29")
25mm(25")
19mm(19", 20", 21")
14mm(13", 14")
TEMPORARY MOUNTING
RUBBER WEDGE
ADHESIVE
PURITY/ CONVERGENCE MAGNET ASS'Y
DEFLECTION YOKE
GLASS CLOTH TAPES

Figure 1.

CONVERGENCE ADJUSTMENTS

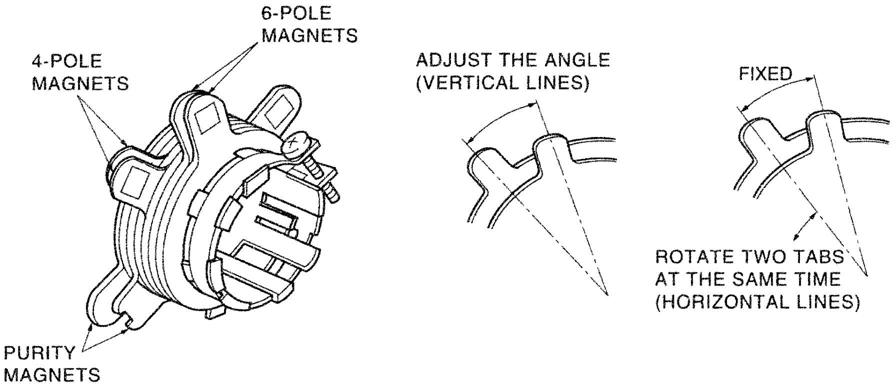
NOTE: Before attempting any convergence adjustments, the receiver should be operated for at least fifteen minutes.

■ CENTER CONVERGENCE ADJUSTMENT

1. Use the cross-dot pattern from among the built-in test signals.
2. Set the brightness and contrast for well defined pattern.
3. Adjust two tabs of the 4-Pole Magnets to change the angle between them (See figure 2.) and superimpose red and blue vertical lines in the center area of the picture screen.
4. Turn the both tabs at the same time keeping the angle constant to superimpose red and blue horizontal lines at the center of the screen.
5. Adjust two tabs of 6-Pole Magnets to superimpose red/blue line and green one. Adjusting the angle affects the vertical lines and rotating both magnets affects the horizontal lines.
6. Repeat adjustments 3, 4, 5 keeping in mind red, green and blue movement, because 4-Pole Magnets and 6-Pole Magnets have mutual interaction and make dot movement complex.

■ CIRCUMFERENCE CONVERGENCE ADJUSTMENT

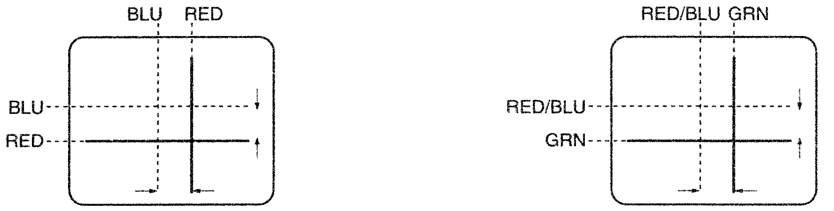
1. Loosen the clamping screw of deflection yoke slightly to allow the yoke to tilt.
2. Temporarily put a wedge as shown in figure 1. (Do not remove cover paper on adhesive part of the wedge.)
3. Tilt front of the deflection yoke up or down to obtain better convergence in circumference. (See figure 3.) Push the mounted wedge into the space between picture tube and the yoke to fix the yoke temporarily.
4. Put other wedge into bottom space and remove the cover paper to stick.
5. Tilt front of the yoke right or left to obtain better convergence in circumference. (See figure 3.)
6. Keep the yoke position and put another wedge in either upper space. Remove cover paper and stick the wedge on picture tube to fix the yoke.
7. Detach the temporarily mounted wedge and put it in another upper space. Stick it on picture tube to fix the yoke.
8. After fixing three wedges, recheck overall convergence. Tighten the screw firmly to fix the yoke and check the yoke is firm.
9. Stick three adhesive tapes on wedges as shown in figure 1.


6-POLE MAGNETS
4-POLE MAGNETS
PURITY MAGNETS
ADJUST THE ANGLE (VERTICAL LINES)
FIXED
ROTATE TWO TABS AT THE SAME TIME (HORIZONTAL LINES)

CONVERGENCE MAGNET ASSEMBLY

ADJUSTMENT OF MAGNETS

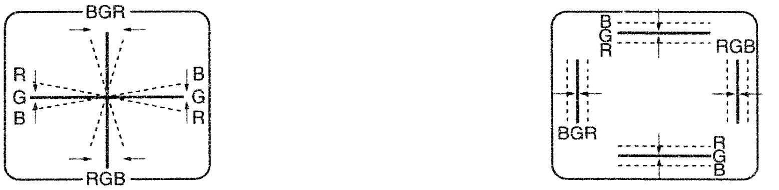
Figure 2.



4-POLE MAGNETS MOVEMENT

6-POLE MAGNETS MOVEMENT

Center Convergence by Convergence Magnets



INCLINE THE YOKE UP (OR DOWN)

INCLINE THE YOKE RIGHT (OR LEFT)

Circumference Convergence by DEF Yoke

Figure 3. Dot Movement Pattern

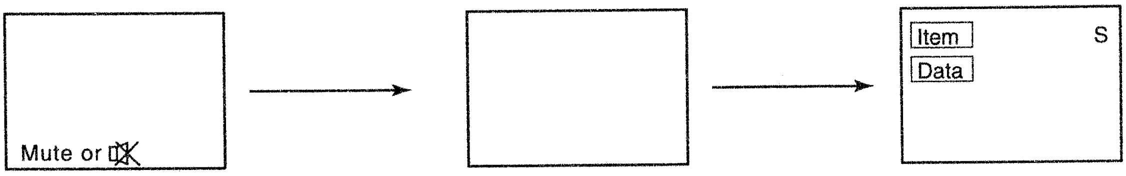
SERVICE MODE

1. ENTERING TO SERVICE MODE

1) Press 🔇 button once on Remote Control.

2) Press 🔇 button again to keep pressing.

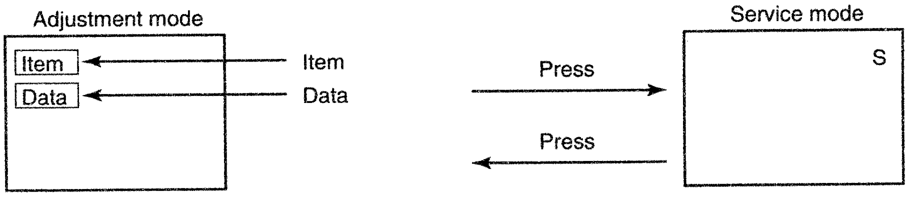
3) While pressing the 🔇 button, press MENU button on TV set.



(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

A single horizontal line ON/OFF:	- / - - button (on Remote) or -⊖ button (on TV)
Test signal selection :	-⊖ button (on Remote)
Selection of the adjustment items :	Channel ▲/▼ (on TV or Remote)
Change of the data value :	Volume ◢ +/– (on TV or Remote)
Adjustment menu mode ON/OFF :	MENU button (on TV)
Initialization of the memory (QA02) :	CALL + Channel button on TV (▲)
Reset the count of operating protect circuit to "00":	CALL + Channel button on TV (▼)
"RCUT" selection :	1 button
"GCUT" selection :	2 button
"BCUT" selection :	3 button
"CNTX" (or "SCNT") selection :	4 button
"COLC" selection :	5 button- - - - Color thickness correction note: Displayed differently as shown below, depending on the setting of the receiving color system. COLP (PAL) COLC (NTSC) COLS (SECAM)
"TNTC" selection :	6 button
Test audio signal ON/OFF (1kHz) :	8 button
Self diagnostic display ON/OFF :	9 button

CAUTION : Never try to perform initialization unless you have changed the memory IC.

4. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

Refer to table-2 for preset data of adjustment mode.
(See SETTING & ADJUSTING DATA on page 19)

5. ADJUSTING THE DATA

1) Pressing of VOLUME ⊿ +/– button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA OF QA02

After replacing QA02, the following initialization is required.

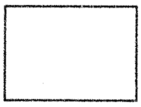
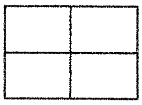
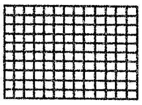
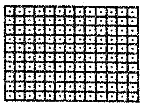
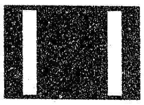
1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 has been complated.
3. Check the picture carefully. If necessary, adjust any adjustment item above.
   Perform "Auto search Memory" on the owner's manual.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

7. TEST SIGNAL SELECTION

1) Every pressing of ⊖ button on the Remote Control changes the built-in test patterns on screen as described below in SERVICE MODE.

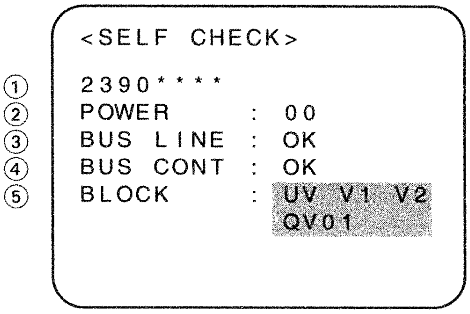
Signal off → NTSC signals (14 patterns)
↑ PAL signals (14 patterns) ←

Signals	Picture
• Red raster • Green raster • Blue raster • All Black • All White	
• Black & White	
• Black cross-bar • White cross-bar • Black cross-bar on green raster	
• Black cross-hatch • White cross-hatch	
• Black cross-dot • White cross-dot	
• H signal (white) • H signal (black)	

* The signals marked with ▨ are not usable to display in the Test signal for some model.

8. SELF DIAGNOSTIC FUNCTION

1) Press “9” button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC’s are executed properly.
2) During diagnosis, the following displays are shown.



```
   <SELF CHECK>

①  2390****
②  POWER      :  00
③  BUS LINE   :  OK
④  BUS CONT   :  OK
⑤  BLOCK      :  UV  V1  V2
                 QV01
```

① Part number of microcomputer (QA01)

② Operation number of protecting circuit ----“00” is normal.
When indication is other than “00”, overcurrent apts to flow, and circuit parts may possibly be damaged.

③ BUS LINE CHECK ----“OK” is normal.
“SDA1-GND” ------------ SDA-GND short circuit.
“SCL1-GND” ------------- SCL-GND short circuit.
“SCL1-SDA1” ------------ SCL-SDA short circuit.

④ BUS CONT ----“OK” is normal.
When indication shows “Q ○○○ NG”, the device with the number may possibly be damaged.

⑤BLOCK
UV : TV reception mode
V1 : VIDEO 1 input mode (-⊖1)
V2 : VIDEO 2 input mode (-⊖2)

Indicated color of mode now selected : Green and Red
Indicated color of other modes : White

Green : Normal
Red : The microcomputer operates to provide judgement of no video signal. The red color is still indicated though the signal is input, failure may exist in input signal line including QV01.
QV01 : In case of indication green ---Normal
In case of indication red with input signal----
Failure may exist in output line including QV01.

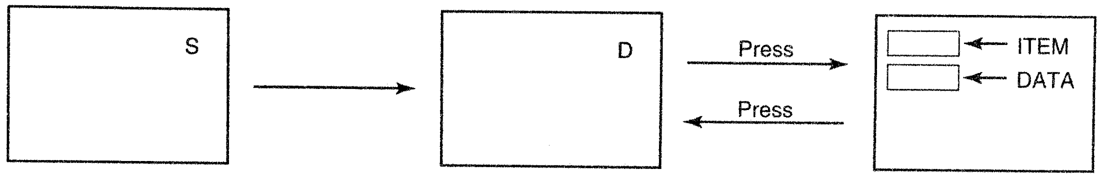
NOTE: Component which controls character display on screen is ICF01 (TELETEXT IC.). If this display function fails to operate due to damage in ICF01, self diagnosis procedure is as follows.
(1) In case that power indicator is blinking with interval of 0.5 seconds; it means protecting circuit (Current limiter) is operating, and circuit components may possibly be damaged. Check related components.
(2) In case that power indicator is blinking with interval of 1 second; Protecting circuit does not operate, but a part of Bus line does not operate normally. Check Bus line.

* The items marked with ▨ are not usable to display in the SELF DIAGNOSTIC FUCTION for some model.

DESIGN MODE

1. ENTERING TO DESIGN MODE

1) Select the Service mode.
2) While pressing 🔇 or CALL button on Remote and press MENU button on TV.
3) Press MENU button on TV.



(Design mode) (Adjustment mode)

When QA01 is initialized, items “OPT0” and “OPT1” of DESIGN MODE are set to the data of the representative model of this chassis family.
Therefore, because ON-SCREEN specification remains in the state of the representative of model. This model is required to reset the data of items “OPT0” and “OPT1”.

2. SELECTING THE ADJUSTING ITEMS

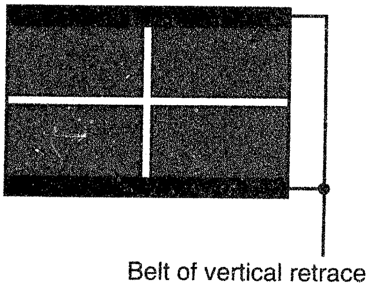
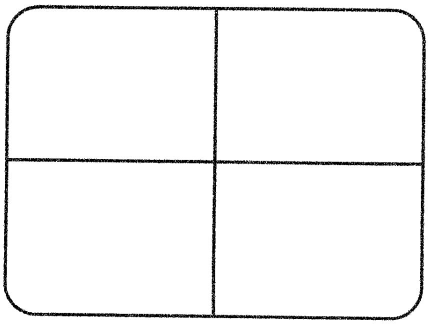
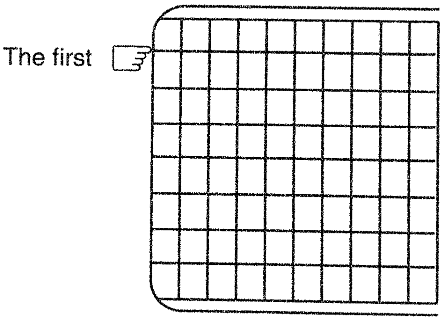
Every pressing of CHANNEL ▼ button in the design mode changes the adjustment items in the order of table-3.
(▲ button for reverse order)

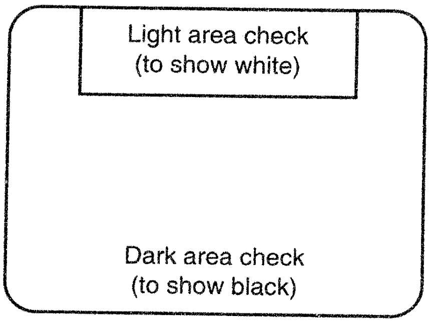
Refer to table-3 for data of design mode.
(See SETTING & ADJUSTING DATA on page 20)

3. ADJUSTING THE DATA

Pressing of VOLUME ▲ or ▼ button will change the value of data.

ELECTRICAL ADJUSTMENTS

ITEM	ADJUSTMENT PROCEDURE
FOCUS VR ADJ	1. Enter the service mode, then select any register item. 2. Press the TV/VIDEO button on the Remote until the black cross-bar pattern appears on the screen. 3. Adjust the FOCUS control (on T461) for well defined scanning lines on the picture screen.
SUB-BRIGHTNESS (BRTC) Note: Constrict the picture height until the vertical retrace line appears adjusting the item HIT (HEIGHT).	1. Set CONTRAST to minimum, and BRIGHTNESS to center by adjusting user controls. 2. Set the TV in service mode to get white cross-bar of inside pattern. 3. Select BRTC (brightness correction), and adjust the ◢ – /+ button to reduce the value so that white portion of inside pattern slightly light. 4. Adjust ◢ – /+ button to increase the data value of BRTC, and set it just before the difference between the belt of vertical retrace and the border of black portion of inside pattern is visible. After that, return vertical height and contrast. 
HORIZONTAL POSITION ADJUSTMENT (HPOS) VERTICAL POSITION ADJUSTMENT (VPOS)	1. Set the TV in service mode, and get black or white cross-bar signal with VIDEO button on remote hand unit. 2. Select either HPOS (Horizontal picture phase) or VPOS (Vertical picture phase) with CHANNEL ▲, ▼ buttons, and adjust horizontal or vertical picture position in the center of screen with VOLUME ◢ – /+ buttons. 
VERTICAL AMPLITUDE ADJUSTMENT (HIT)	1. Set the TV in service mode, and get black or white cross-hatch signal with VIDEO button on remote hand unit. 2. Select HIT (Vertical amplitude) with CHANNEL ▲, ▼ buttons, and adjust vertical amplitude with VOLUME ◢ – /+ buttons so that vertical amplitude lacks a little. 3. Adjust vertical amplitude with VOLUME ◢ – /+ buttons so that the first bar on cross-hatch signal touches edge of screen. 

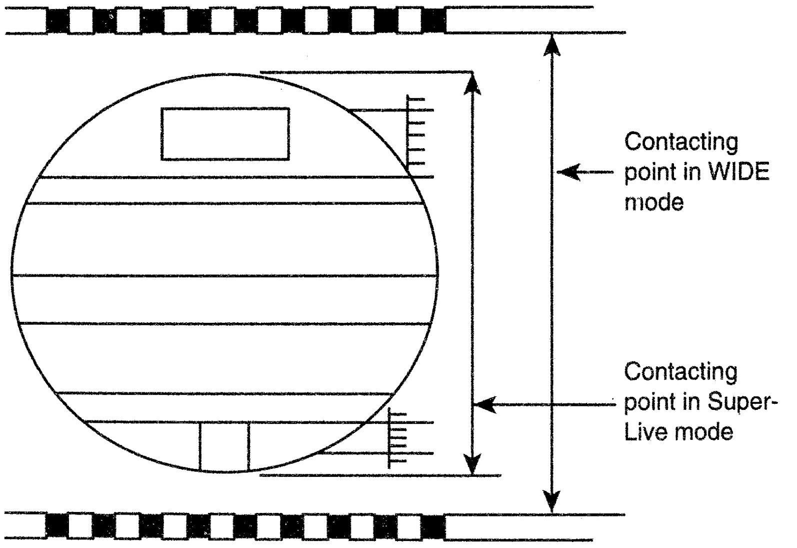
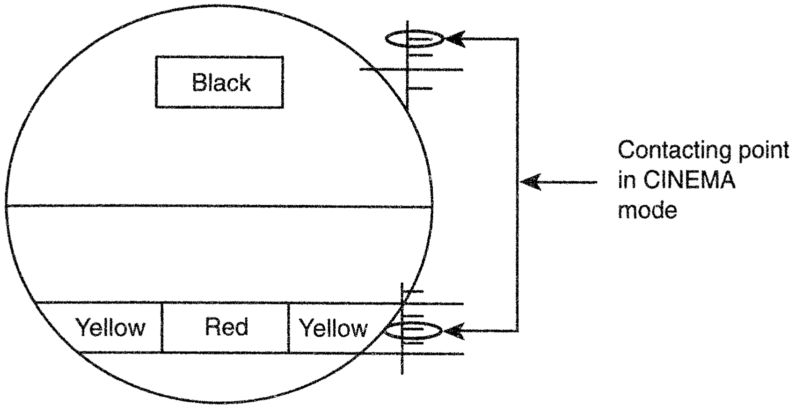
ITEM	ADJUSTMENT PROCEDURE
WHITE BALANCE ADJUSTMENT ● CUTOFF ADJUSTMENT (RCUT) (GCUT) (BCUT) ● DRIVE ADJUSTMENT (GDRV) (BDRV)	1. Set Contrast to 40, and brightness to +20 by picture control. 2. Set the TV in service mode, and get the inside W/B adjusting signal with VIDEO button. 3. Select RCUT, GCUT and BCUT with CHANNEL ▲, ▼ buttons, to set individual values to Initial reference data, and to set GDRV and BDRV to Initial reference data with VOLUME ⊿ – /+ buttons (See page 19). 4. Press -/- - button on the remote control and rotate Screen VR to get one slight horizontal line on screen. Note: Every pressing of -/- - button provides Horizontal line picture and Normal picture alternately. 5. Press -/- - button to release horizontal line picture, and select the two other colors which did not light in the above step with CHANNEL ▲, ▼ buttons. Then tap VOLUME ⊿ – /+ buttons so that three colors slightly light in the same level. ※ To correct white balance in light area, select GDRV and BDRV with CHANNEL ▲, ▼ buttons to adjust. ※ To correct white balance in dark area, perform fine adjustment of RCUT, GCUT and BCUT.  Light area check (to show white) Dark area check (to show black)

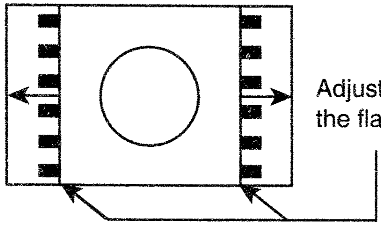
MODEL NAME : C7SS (PAL–100Hz WIDE) (Reference factory adjustments)

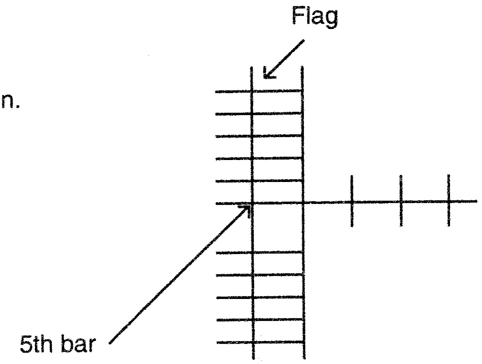
Item	Name	Setting (User control)	Input signal	Measurement point	Adjustment procedure	Adjustment standard	
[SCNT]	Sub-contrast	Dynamic mode	Sub-bright signal (PAL-I signal)	Q501#55 (TP501)	① Adjust the amplitude from the pedestal level to the white peak.	28W7DD 28MW7DG 32MW7DG	2.3 ± 0.2 Vp-p
						28MW7DB 32MW7DB	2.5 ± 0.2 Vp-p
[BRTC]	Sub-bright center	Dynamic mode	Sub-bright signal	Screen adjustment	① Adjust the number of black collapsed lines in the sub-bright signal. ② This adjustment shall be done after the W/B and [SCNT] adjustments.	4 ± 1.5 lines Screen adjustment	
[COLP]	Sub-color center PAL	Dynamic mode	Sub-bright signal (PAL)	Q501#55 (TP501)	① Adjust the B-Y amplitude.	1.4 ± 0.2 Vp-p	
[RCUT] [GCUT] [BCUT] Screen VR [GDRV] [BDRV]	R cut-off G cut-off B cut-off G drive B drive	[RCUT] : 40 [GCUT] : 40 [BCUT] : 40 Horizontal straight-line mode [GDRV] : 40 [BDRV] : 40		Screen adjustment	① Set each control as shown in the left column. ② Gradually increase the screen VR until either R, G or B line starts to light up slightly. ③ Determine the screen VR adjustment position here. ④ Gradually increase remaining two screen VRs until respective line starts to light up slightly. (Adjust until the screen becomes almost white.) ⑤ Exit from the horizontal straight-line mode. ⑥ Using CA100, repeat this adjustment until correct value is set to both the dark and bright parts.	Bright part (103cd/m^2) 8750K-0.002uv Bright part (CA100)	Dark part (17cd/m^2) 8750K-0.002uv

Item	Name	Setting (User control)	Input signal	Measurement point	Adjustment procedure	Adjustment standard
[BELL]	BELL filter		SECAM color bar	QQ01#21 (TPM01)	① Vary the [BELL] until the waveform on the synchroscope becomes flat.	100 ± 10%
[SRY]	SECAM R-Y black level	Dynamic mode	SECAM color bar	Q501#55 (TP501)	① Vary the [SRY] until the level of the B/W signal becomes equal to the H. BLK level.	0 ± 40 mV
[SBY]	SECAM R-Y black level	Dynamic mode	SECAM color bar	Q501#55 (TP501)	① Vary the [SBY] until the level of the B/W signal becomes equal to the H. BLK level.	0 ± 40 mV
[COLS]	Sub-color center SECAM	Dynamic mode	SECAM color bar	Q501#55 (TP501)	① Adjust the R-Y amplitude. (During this adjustment apply the picture mute.)	1.9 ± 0.2 op * (Pedestal to Peak)

Adjustment parts	Input point / Output point	Adjustment signal	Adjustment conditions and procedures
Vertical synchronizing VR adjustment R4350	DEF UNIT	—	① Supply +12.0V to the HVCC terminal (P813B#57). ② Using a frequency counter, adjust the VR so that the frequency at the Q420#24 terminal becomes 80.0 +2.0/−1.0Hz. ※ When supplying power, connect the power supply to GND of negative side of C4311.
Horizontal synchronizing VR adjustment. R4450	DEF UNIT	—	① Supply +12.0V to the HVCC terminal (P813B#57). ② Using a frequency counter, adjust the VR so that the frequency at the Q420#16 terminal becomes 31.36 ±0.15Hz. ※ When supplying power, connect the power supply to GND of negative side of C4311.

	Adjustment Item	Adjustment Procedure	
Vertical	WIDE mode Vertical amplitude HIT	PAL WG Phillips pattern, User adjustment standard. Adjust the vertical amplitude so that both upper and lower flags disappear from the screen.	 Contacting point in WIDE mode Contacting point in Super-Live mode
	Vertical position GMPO	PAL Phillips pattern, User adjustment standard. Adjust the vertical position [GMPO] so that the vertical screen position of the Phillips pattern comes to the center of the screen (see the right sketch).	
	Super-Live mode Vertical amplitude HIT	PAL Phillips pattern, User adjustment standard. Adjust the vertical amplitude by [HIT] so that the top and bottom of the circle of the Phillips pattern touch the CPT mask (see the right sketch).	
	CINEMA mode Vertical amplitude HIT	Phillips pattern, User adjustment standard. Adjust the vertical amplitude by [HIT] so that the points shown in the right bottom sketch touch the CRT mask (see the right sketch).	 Black Yellow Red Yellow Contacting point in CINEMA mode

No	Applicable Models	Adjustment Item	Adjustment Procedures
1	32MW7DB 32MW7DG	Focus adjustment (1) HOR. FOCUS	Conditions) PAL, RETMA signal WIDE mode, User adjustment standard Adjustment) With the center of the screen being the best focus, set the focus volume (F1) of the focus pack (Z410) to the fully counterclockwise position.
	32MW7DB 32MW7DG	Focus adjustment (2) VERT. FOCUS	Conditions) PAL, RETMA signal WIDE mode, User adjustment standard Adjustment) With the center of the screen being the best focus, set the focus volume (F2) of the focus pack (Z410) to the fully counterclockwise position.
	28W7DD 28MW7DB 28MW7DG	Focus adjustment	Conditions) PAL, RETMA signal WIDE mode, User adjustment standard Adjustment) With the center of the screen being the best focus, set the focus volume of the flyback transformer (T461) to the fully counterclockwise position.
2	All models	Vertical position adjustment	Conditions) PAL, WG Phillips pattern WIDE mode, User adjustment standard Adjustment) Adjust [GMPO] so that both top and bottom positions touch the mask. (This adjustment shall be done with the CPT facing south or north. If this cannot be done, offset the deviation.)
3	All models	Horizontal position adjustment	Conditions) PAL, WG Phillips pattern WIDE mode, User adjustment standard Adjustment) With the VR (R451), adjust the frame of both left and right flags to the mask. (If necessary, also adjust the horizontal amplitude.)  Adjust the frame of the flags to the mask.

	Adjustment Item	Adjustment Procedures
Horizontal	WIDE mode (4:3 mode)	With the PAL, WG Phillips pattern, in the WIDE mode, adjust the horizontal amplitude so that the mask comes to the frames of left and right flags.
	Horizontal position (R451) Horizontal amplitude [WIDE] Side DPC [PARA] Trapezoidal distortion [TRAP]	With the PAL, WG Phillips pattern, in the WIDE mode, adjust the horizontal position to minimize the side pincushion distortion and trapezoidal distortion. Note) This adjustment shall be done at the same time as the horizontal position adjustment item in the volume adjustment. If the horizontal position cannot be adjusted to the center by the volume, adjust the horizontal amplitude until the flag frame touches the mask. Confirm the side pincushion distortion in the 4:3 mode. (If necessary, reconfirm it with observing the quality of the side panel in 4:3 mode.)
	Super-Live mode Horizontal amplitude Side DPC Trapezoidal distortion	In the WIDE mode with the PAL Phillips pattern : Adjust the 5th bar in the left and right flags to the mask. Adjust to minimize the side pincushion distortion and trapezoidal distortion. 
	CINEMA mode Horizontal amplitude Side DPC Trapezoidal distortion	In the CINEMA mode with the PAL Phillips pattern : Adjust the horizontal amplitude so that mask comes to the frames of the left and right flags. Adjust to minimize the side pincushion distortion and trapezoidal distortion.

CIRCUIT CHECK

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST controls to minimum (zero beam current).
3. High voltage must be measured below Ⓑ kV.

Refer to table-1 for high voltage Ⓑ.
(See SETTING & ADJUSTING DATA on page 19)

4. Vary the BRIGHTNESS control to both extremes to be sure the high voltage does not exceed the limit under any conditions.

CHAPTER 2 SPECIFIC INFORMATIONS

SETTING & ADJUSTING DATA

【SAFETY INSTRUCTIONS】

		32"
HIGH VOLTAGE AT ZERO BEAM:	Ⓐ	33.9 kV
MAX HIGH VOLTAGE:	Ⓑ	34.0 kV
AV VOLTAGE	Ⓒ	220~240 V

Table-1

【SERVICE MODE】

ADJUSTING ITEMS AND DATAS IN THE SERVICE MODE:

Item	Adjustment	Preset data	Reference data
RCUT	R CUTOFF (B/W)	40H	←
GCUT	G CUTOFF (B/W)	40H	←
BCUT	B CUTOFF (B/W)	40H	←
GDRV	G DRIVE	40H	←
BDRV	B DRIVE	40H	←
BRTC	SUB BRIGHT CEN	80H	←
COLC	SUB COLOR CEN NTSC	00H	←
TNTC	SUB TINT CEN	48H	←
COLP	SUB COLOR CEN PAL	39H	←
COLS	SUB COLOR CEN SECAM	00H	←
SCNT	SUB CONTRAST	19H	←
HIT	HEIGHT	32H	30H
HIT	(SUPER LIVE)	3BH	3AH
HIT	(CINEMA)	52H	4FH
VLIN	V-LINEARITY	16H	15H
VLIN	(SUPER LIVE)	14H	13H
VLIN	(CINEMA)	16H	←
VSC	V-S CORRECTION	2BH	2AH
VPS	V-SHIFT	04H	03H
VCP	V-COMPENSATION	05H	←
WID	PICTURE WIDTH (SUPER LIVE)	2BH	←
WIDE	(CINEMA)	2AH	←
PARA	E-W PARABOLA	1CH	21H
PARA	(SUPER LIVE)	1EH	27H
PARA	(CINEMA)	31H	3DH
CNR	E-W CORNER	0FH	11H
TRAP	TRAPEZIUM	48H	46H
TRAP	(SUPER LIVE)	48H	4BH
TRAP	(CINEMA)	45H	49H
HCP	H-COMPENSATION	02H	←
VFC	V-F CORRECTION	0FH	←
GMPO	GMPO	42H	41H
GMPO	(SUPER LIVE)	42H	41H
GMPO	(CINEMA)	3FH	←

Table-2

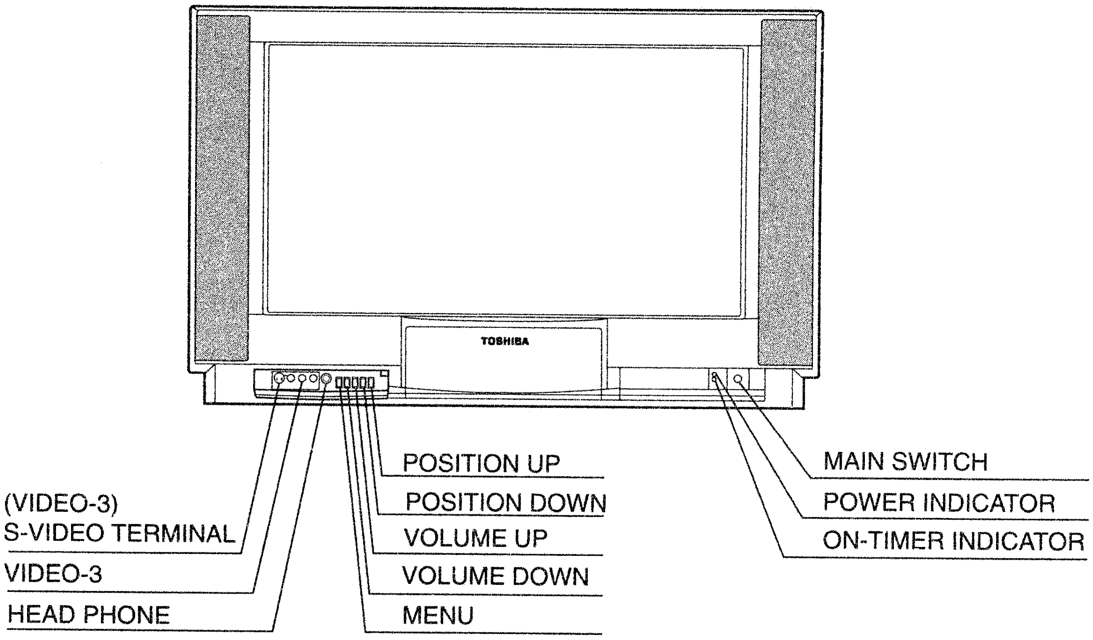
【DESIGN MODE】

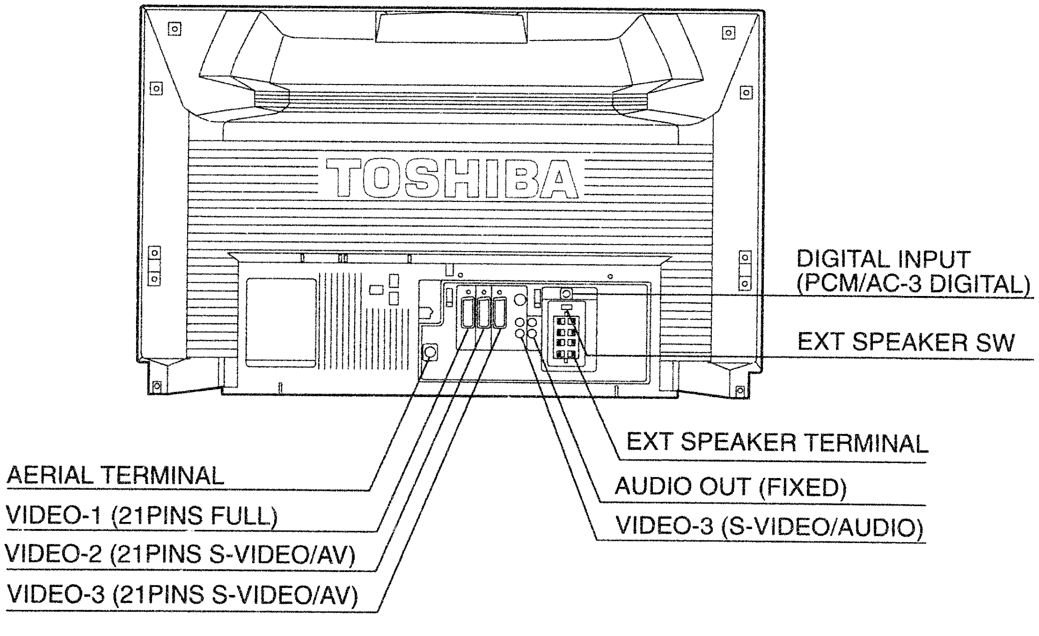
ADJUSTING ITEMS AND DATAS IN THE DESIGN MODE:

Item	Name of adjustment	Data		Remarks
		Preset Data		
	* There are no adjusting item in the DESIGN MODE.			

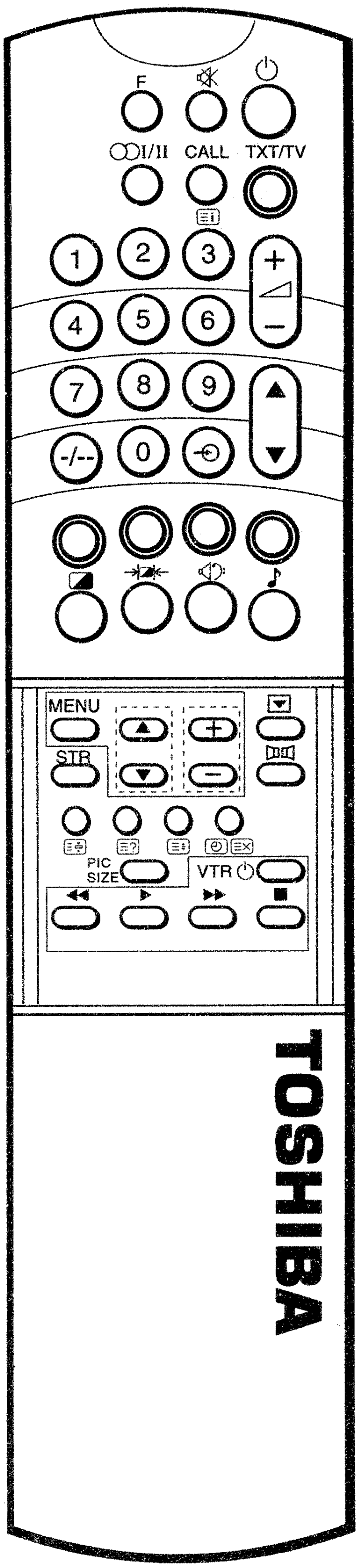
Table-3

LOCATION OF CONTROLS (TV SET)


TOSHIBA
POSITION UP
POSITION DOWN
VOLUME UP
VOLUME DOWN
MENU
(VIDEO-3)
S-VIDEO TERMINAL
VIDEO-3
HEAD PHONE
MAIN SWITCH
POWER INDICATOR
ON-TIMER INDICATOR


TOSHIBA
DIGITAL INPUT
(PCM/AC-3 DIGITAL)
EXT SPEAKER SW
EXT SPEAKER TERMINAL
AUDIO OUT (FIXED)
VIDEO-3 (S-VIDEO/AUDIO)
AERIAL TERMINAL
VIDEO-1 (21PINS FULL)
VIDEO-2 (21PINS S-VIDEO/AV)
VIDEO-3 (21PINS S-VIDEO/AV)

LOCATION OF CONTROLS (REMOTE CONTROL)



KEY ASSIGNMENT

⏻ .... ON/STAND-BY
🔇 .... Sound mute
F .... (Quick/advanced operation)
CALL (On-screen call)/≣ (index, initial) .... TELETEXT MODE
◪ .... PICTURE MENU
♪ .... SOUND MENU
ꝏ I/II ..... <TV MODE> .... STEREO BILINGUAL
1~9, 0 ..... TEN KEY
-/--........ 1 or 2 place
-⊙ .... VIDEO INPUT (EXTERNAL INPUT SOURCE SW.)
◺ .... VOLUME
+ .... LEVEL PLUS (VOLUME, MENU)
− .... LEVEL MINUS (VOLUME, MENU)
▲ .... UP (POSI., CH., TEXT PAGE)
▼ .... DOWN (POSI., CH., TEXT PAGE)

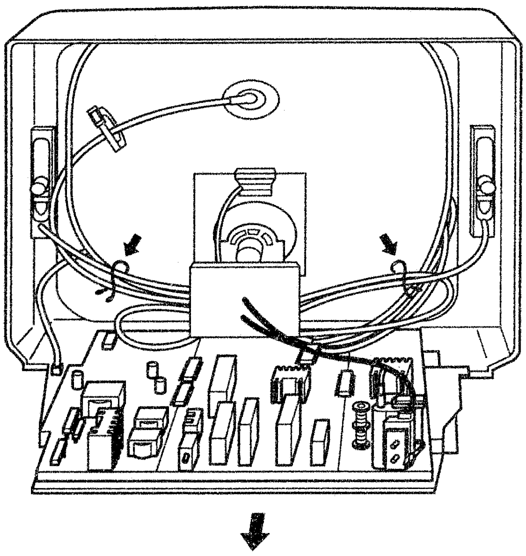
TELE-TEXT
- TXT/TV ... TEXT, MIX, TV MODE SW.
- ≣ .... HOLD
- ≣ .... <TEXT MODE> .... REVEAL / CONCEAL
- ≣ .... <TEXT MODE> .... F-T-B (FULL, TOP, BOTTOM)
- ⊙/≣. ...... TIME DISPLAY (TV MODE) TEXT CLEAR (TEXT MODE)
- FLOF COLOUR KEY (4 key used) Red/Green/Yellow/Blue

🔊 .... Super woofer
▼ .... Still
DSP .... DSP/Surround
→◪← .... Selectable picture
MENU .... TUNING & OTHER MENU
▲ / ▼ .... Menu select
− / + ... Level down/up
PIC SIZE ...... PIC SIZE (Picture size select)
STR .... Store
▲/▼ .... Menu Select
+/− .... Level up/down

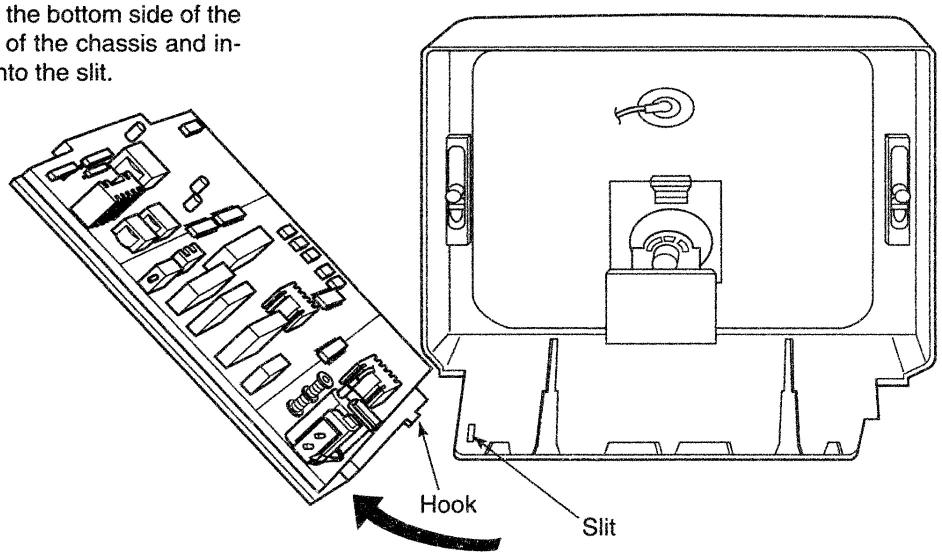
VTR control
- ⏻ Power on/standby
- ▶ Play
- ■ Stop
- ◀◀ Rewind
- ▶▶ Fast forward

SERVICE POSITION

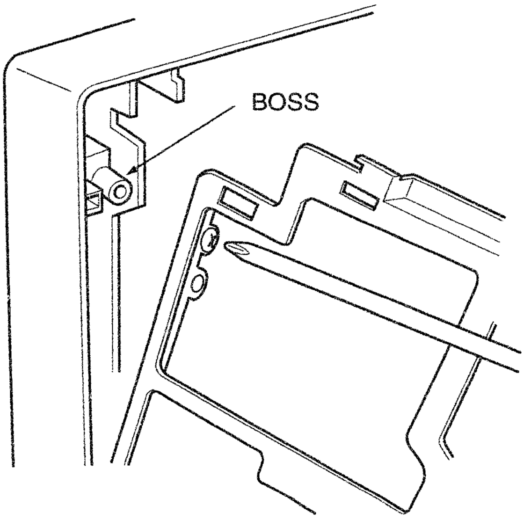
1. Disconnect the lead wires for the speaker fixed to the degausser coil with three omega clips. And lifting up slightly, pull out the chassis from the front mask.



2. There is a slit at the left front of the bottom side of the front mask. Lift up the left side of the chassis and insert the hook at the right side into the slit.

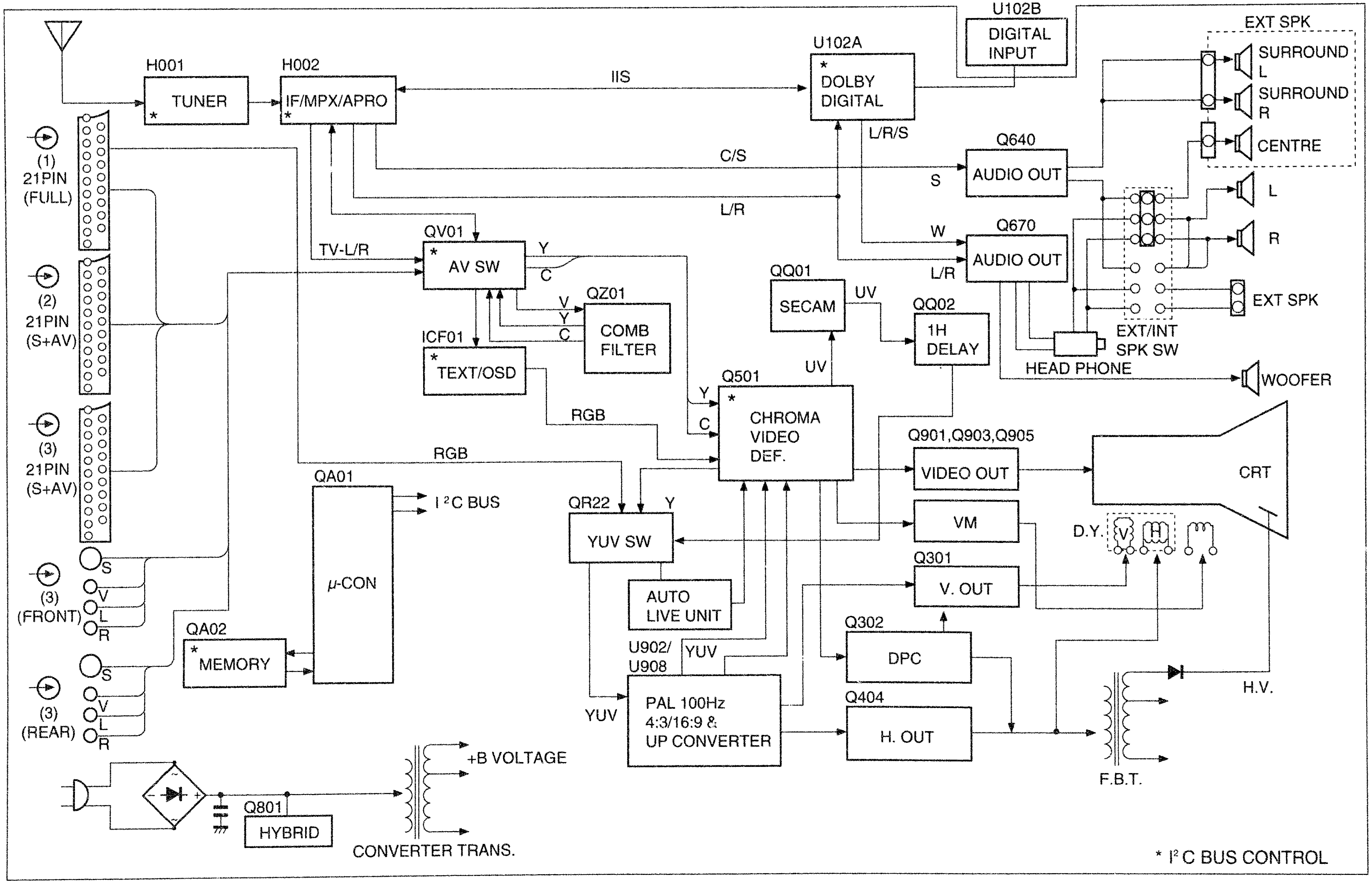


3. To retain the chassis, use the upper left boss (highest boss). And fix it with screws for back cover fixing. Upper hole of the chassis frame.

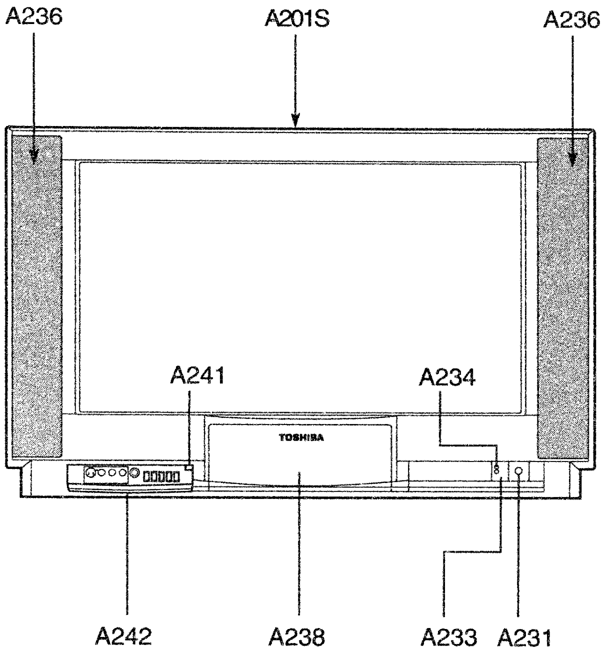


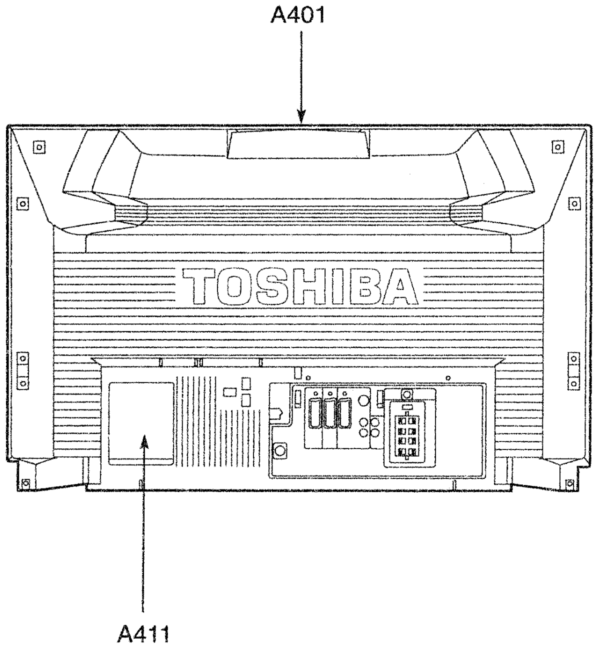
4. After repair works, restore the unit by reversing the above steps.

CIRCUIT BLOCK DIAGRAM


H001
TUNER
H002
IF/MPX/APRO
IIS
U102A
DOLBY DIGITAL
U102B
DIGITAL INPUT
L/R/S
C/S
L/R
S
W
L/R
Q640
AUDIO OUT
Q670
AUDIO OUT
EXT SPK
SURROUND L
SURROUND R
CENTRE
L
R
EXT SPK
EXT/INT SPK SW
HEAD PHONE
WOOFER
(1) 21PIN (FULL)
(2) 21PIN (S+AV)
(3) 21PIN (S+AV)
(3) (FRONT)
(3) (REAR)
S
V
L
R
TV-L/R
QV01
AV SW
Y
C
V
Y
C
QZ01
COMB FILTER
ICF01
TEXT/OSD
RGB
RGB
QQ01
SECAM
UV
UV
QQ02
1H DELAY
Q501
CHROMA VIDEO DEF.
Q901,Q903,Q905
VIDEO OUT
CRT
VM
D.Y.
V
H
Q301
V. OUT
QA01
μ-CON
I²C BUS
QA02
MEMORY
QR22
YUV SW
AUTO LIVE UNIT
U902/ U908
YUV
YUV
PAL 100Hz 4:3/16:9 & UP CONVERTER
Q302
DPC
Q404
H. OUT
F.B.T.
H.V.
+B VOLTAGE
CONVERTER TRANS.
Q801
HYBRID
* I²C BUS CONTROL

CABINET REPLACEMENT PARTS LIST


A236
A201S
A236
A241
A234
A242
A238
A233
A231


A401
TOSHIBA
A411

Location No.	Part No.	Description
A201S	23510029	Front Cover
A231	23444915	Button, Power
A233	23430354	Lens, Remote
A234	23430355	Piece, LED
A236	23519223	Speaker Grille
A238	23519605	Speaker Grille, Center
A241	70368125	Push Catch for Door
A242	23427227	Door
⚠A401	23426956	Back Cover
A411	23560589	Label, Model No. (32MW7DB)
A411	23560590	Label, Model No. (32MW7DG)
A420	23460899	Trim, Back Term.
Z101	23436597	Stand Assembly (32MW7DB)

CHASSIS REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

NOTICE:

- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with * mark is no longer available after the end of the production.*

Models : 32MW7DB/32MW7DG

Capacitors .... CD : Ceramic Disk PF : Plastic Film EL : Electrolytic
Resistors .... CF : Carbon Film CC : Carbon Composition MF : Metal Film
OMF : Oxide Metal Film VR : Variable Resistor FR : Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Part No.	Description
CAPACITORS		
C101	24797229	EL, 2.2µF, ±20%, 50V (32MW7DG)
C103	24232103	CD, 0.01µF, +80%, −20%
C104	24794470	EL, 47µF, ±20%, 16V
C105	24232103	CD, 0.01µF, +80%, −20%
C106	24797100	EL, 10µF, ±20%, 50V
C107	24794221	EL, 220µF, ±20%, 16V
C108	24793471	EL, 470µF, ±20%, 10V
C109	24232103	CD, 0.01µF, +80%, −20%
C116	24794221	EL, 220µF, ±20%, 16V
C117	24232103	CD, 0.01µF, +80%, −20% (32MW7DG)
C183	24797229	EL, 2.2µF, ±20%, 50V (32MW7DB)
C183	24797479	EL, 4.7µF, ±20%, 50V (32MW7DG)
C198	24232103	CD, 0.01µF, +80%, −20%
C199	24794221	EL, 220µF, ±20%, 16V
C201	24206100	EL, 10µF, 50V
C203	24538104	PF, 0.1µF
C204	24206010	EL, 1µF, 50V
C205	24206229	EL, 2.2µF, 50V
C206	24794220	EL, 22µF, ±20%, 16V
C207	24436100	CD, 10pF, ±0.25pF
C208	24436100	CD, 10pF, ±0.25pF
C209	24436100	CD, 10pF, ±0.25pF
C212	24794100	EL, 10µF, ±20%, 16V
C213	24436100	CD, 10pF, ±0.25pF
C214	24538334	PF, 0.33µF
C215	24474101	CD, 100pF, ±10%
C216	24436101	CD, 100pF
C218	24436390	CD, 39pF
C231	24436330	CD, 33pF
C303	24214471	CD, 470pF, ±10%, 500V
C304	24082049	PF, 0.047µF, 100V
C305	24617912	EL, 2.2µF, ±10%, 50V
C306	24795332	EL, 3300µF, 25V
C307	24793101	EL, 100µF, ±20%, 10V
C308	24797221	EL, 220µF, ±20%, 50V
C309	24797101	EL, 100µF, ±20%, 50V
C310	24796222	EL, 2200µF, ±20%, 35V
C311	24590473	PF, 0.047µF
C312	24590273	PF, 0.027µF
C313	24082058	PF, 0.27µF, 100V
C315	24797229	EL, 2.2µF, ±20%, 50V
C316	24212102	CD, 1000pF, ±10%
C331	24797101	EL, 100µF, ±20%, 50V
C366	24082049	PF, 0.047µF, 100V
C370	24794101	EL, 100µF, ±20%, 16V
C371	24794100	EL, 10µF, ±20%, 16V
C401	24538104	PF, 0.1µF
C403	24591393	PF, 0.039µF
C404	24797229	EL, 2.2µF, ±20%, 50V
C410	24092341	CD, 470pF, ±10%, 2kV
C413	24214332	CD, 3300pF, ±10%, 500V
C416	24668101	EL, 100µF, ±20%, 35V
C417	24214391	CD, 390pF, ±10%, 500V
C419	24212102	CD, 1000pF, ±10%
C420	24666101	EL, 100µF, ±20%, 16V
C421	24538104	PF, 0.1µF
C423	24829473	PF, 0.047µF, 400V
C430	24095887	PF, 0.01µF, ±3%, 630V
C430	24232103	CD, 0.01µF, +80%, −20%
C431	24794102	EL, 1000µF, ±20%, 16V
C431	24232103	CD, 0.01µF, +80%, −20%
C439	24082830	PF, 3000pF, ±3%, 1800V
C440	24082830	PF, 3000pF, ±3%, 1800V
C442	24082643	PF, 0.18µF, 400V
C443	24082644	PF, 0.2µF, 400V
C444	24082828	PF, 2400pF, ±3%, 1800V
C445	24828473	PF, 0.047µF, 200V
C446	24679330	EL, 33µF, ±20%, 250V
C448	24640908	EL, 33µF, ±20%, 160V
C460	24796331	EL, 330µF, ±20%, 35V
C461	24082828	PF, 2400pF, ±3%, 1800V
C462	24795222	EL, 2200µF, ±20%, 25V
C463	24212392	CD, 3900pF, ±10%
C464	24640900	EL, 4.7µF, ±20%, 100V
C465	24590683	PF, 0.068µF
C470	24794220	EL, 22µF, ±20%, 16V
C472	24538474	PF, 0.47µF
C473	24669010	EL, 1µF, ±20%, 50V
C475	24095887	PF, 0.01µF, ±3%, 630V

Location No.	Part No.	Description
C477	24591563	PF, 0.056μF
C478	24591473	PF, 0.047μF
C479	24214471	CD, 470pF, ±10%, 500V
C481	24538104	PF, 0.1μF
C483	24591152	PF, 1500pF
C491	24082749	PF, 1.5μF, 250V
C492	24082645	PF, 0.22μF, 400V
C494	24082644	PF, 0.2μF, 400V
C495	24092343	CD, 680pF, ±10%, 2kV
C496	24092343	CD, 680pF, ±10%, 2kV
C501	24212101	CD, 100pF, ±10%
C502	24232103	CD, 0.01μF, +80%, -20%
C503	24794101	EL, 100μF, ±20%, 16V
C504	24590222	PF, 2200pF
C505	24353120	CD, 12pF
C507	24353120	CD, 12pF
C508	24206100	EL, 10μF, 50V
C509	24794101	EL, 100μF, ±20%, 16V
C510	24794101	EL, 100μF, ±20%, 16V
C511	24232103	CD, 0.01μF, +80%, -20%
C512	24206228	EL, 0.22μF, 50V
C513	24092398	CD, 0.1μF, +80%,-20%
C514	24538104	PF, 0.1μF
C515	24538104	PF, 0.1μF
C516	24212102	CD, 1000pF, ±10%
C517	24353010	CD, 1pF, ±0.25pF
C519	24353010	CD, 1pF, ±0.25pF
C520	24474102	CD, 1000pF, ±10%
C521	24212102	CD, 1000pF, ±10%
C522	24473470	CD, 47pF
C523	24473470	CD, 47pF
C524	24436561	CD, 560pF
C525	24353181	CD, 180pF
C526	24474101	CD, 100pF, ±10%
C613	24794470	EL, 47μF, ±20%, 16V
C630	24590102	PF, 1000pF
C631	24206010	EL, 1μF, 50V
C632	24797479	EL, 4.7μF, ±20%, 50V
C633	24538124	PF, 0.12μF
C634	24796471	EL, 470μF, ±20%, 35V
C641	24206010	EL, 1μF, 50V
C644	24206010	EL, 1μF, 50V
C645	24795470	EL, 47μF, ±20%, 25V
C647	24591102	PF, 1000pF
C648	24590682	PF, 6800pF
C649	24206229	EL, 2.2μF, 50V
C650	24796102	EL, 1000μF, ±20%, 35V
C651	24668471	EL, 470μF, ±20%, 35V
C652	24668471	EL, 470μF, ±20%, 35V
C654	24591124	PF, 0.12μF
C655	24591124	PF, 0.12μF
C656	24232103	CD, 0.01μF, +80%, -20%
C660	24206229	EL, 2.2μF, 50V
C661	24538104	PF, 0.1μF
C663	24797229	EL, 2.2μF, ±20%, 50V
C664	24203100	EL, 10μF, ±20%, 16V
C665	24206229	EL, 2.2μF, 50V
C666	24206229	EL, 2.2μF, 50V
C667	24232103	CD, 0.01μF, +80%, -20%
C667	24797229	EL, 2.2μF, ±20%, 50V
C668	24232103	CD, 0.01μF, +80%, -20%
C668	24794100	EL, 10μF, ±20%, 16V
C669	24668330	EL, 33μF, ±20%, 35V
C670	24668330	EL, 33μF, ±20%, 35V

Location No.	Part No.	Description
C671	24797010	EL, 1μF, ±20%, 50V
C671	24212102	CD, 1000pF, ±10%
C672	24212102	CD, 1000pF, ±10%
C673	24797010	EL, 1μF, ±20%, 50V
C673	24474102	CD, 1000pF, ±10%
C674	24474102	CD, 1000pF, ±10%
C674	24797010	EL, 1μF, ±20%, 50V
C675	24474102	CD, 1000pF, ±10%
C675	24795470	EL, 47μF, ±20%, 25V
C676	24474102	CD, 1000pF, ±10%
C676	24797479	EL, 4.7μF, ±20%, 50V
C677	24212102	CD, 1000pF, ±10%
C677	24590102	PF, 1000pF
C678	24474102	CD, 1000pF, ±10%
C678	24590102	PF, 1000pF
C679	24538104	PF, 0.1μF
C679	24474102	CD, 1000pF, ±10%
C680	24668102	EL, 1000μF, ±20%, 35V
C680	24212102	CD, 1000pF, ±10%
C681	24474102	CD, 1000pF, ±10%
C681	24668471	EL, 470μF, ±20%, 35V
C682	24668471	EL, 470μF, ±20%, 35V
C682	24474102	CD, 1000pF, ±10%
C683	24668102	EL, 1000μF, ±20%, 35V
C683	24232103	CD, 0.01μF, +80%, -20%
C684	24590124	PF, 0.12μF
C684	24232103	CD, 0.01μF, +80%, -20%
C685	24590124	PF, 0.12μF
C685	24232103	CD, 0.01μF, +80%, -20%
C686	24232103	CD, 0.01μF, +80%, -20%
C686	24590124	PF, 0.12μF
C687	24232103	CD, 0.01μF, +80%, -20%
C688	24203220	EL, 22μF, ±20%, 16V
C689	24797010	EL, 1μF, ±20%, 50V
C704	24232103	CD, 0.01μF, +80%, -20%
C705	24797229	EL, 2.2μF, ±20%, 50V
C707	24794470	EL, 47μF, ±20%, 16V
C712	24666470	EL, 47μF, ±20%, 16V
C713	24790100	EL, 10μF, ±20%, 160V
C714	24436101	CD, 100pF
C715	24214472	CD, 4700pF, ±10%, 500V
C716	24436101	CD, 100pF
C717	24214472	CD, 4700pF, ±10%, 500V
C718	24794470	EL, 47μF, ±20%, 16V
C719	24435151	CD, 150pF, 500V
C720	24790100	EL, 10μF, ±20%, 160V
C721	24794470	EL, 47μF, ±20%, 16V
⚠C801	24082927	PF, 0.22μF, ±20%, AC250V (32MW7DB)
C802	24082927	PF, 0.22μF, ±20%, AC250V (32MW7DB)
C805	24092281	CD, 4700pF, ±20%, AC250V
C806	24092281	CD, 4700pF, ±20%, AC250V
C808	24667331	EL, 330μF, ±20%, 25V
C809	24214471	CD, 470pF, ±10%, 500V
C810	24086063	EL, 330μF, ±20%, 400V
⚠C811	24092557	CD, 2200pF, ±20%, AC250V
⚠C813	24092555	CD, 1000pF, ±10%, AC250V
⚠C814	24092555	CD, 1000pF, ±10%, AC250V
⚠C815	24092553	CD, 470pF, ±10%, AC250V
C816	24669221	EL, 220μF, ±20%, 50V
C817	24092341	CD, 470pF, ±10%, 2kV
C818	24095931	PF, 2200pF, 1250V
C819	24676220	EL, 22μF, ±20%, 100V

Location No.	Part No.	Description
C820	24092343	CD, 680pF, ±10%, 2kV
C821	24214471	CD, 470pF, ±10%, 500V
C822	24538474	PF, 0.47μF
C829	24590182	PF, 1800pF
C831	24794470	EL, 47μF, ±20%, 16V
C832	24794470	EL, 47μF, ±20%, 16V
C833	24669100	EL, 10μF, ±20%, 50V
C834	24797100	EL, 10μF, ±20%, 50V
C835	24794470	EL, 47μF, ±20%, 16V
C841	24669100	EL, 10μF, ±20%, 50V
C842	24669100	EL, 10μF, ±20%, 50V
C843	24538104	PF, 0.1μF
C846	24538104	PF, 0.1μF
C847	24538474	PF, 0.47μF
C871	24214471	CD, 470pF, ±10%, 500V
C872	24669221	EL, 220μF, ±20%, 50V
C874	24667330	EL, 33μF, ±20%, 25V
C876	24666101	EL, 100μF, ±20%, 16V
C884	24086916	EL, 330μF, ±20%, 160V
C885	24214471	CD, 470pF, ±10%, 500V
C887	24214471	CD, 470pF, ±10%, 500V
C889	24668222	EL, 2200μF, ±20%, 35V
C892	24668222	EL, 2200μF, ±20%, 35V
C893	24092337	CD, 220pF, ±10%, 2kV
C894	24668222	EL, 2200μF, ±20%, 35V
C895	24669470	EL, 47μF, ±20%, 50V
C896	24214471	CD, 470pF, ±10%, 500V
C897	24668332	EL, 3300μF, ±20%, 35V
C898	24538224	PF, 0.22μF
C899	24214471	CD, 470pF, ±10%, 500V
C902	24092353	CD, 4700pF, ±10%, 2kV
C904	24436471	CD, 470pF
C905	24436471	CD, 470pF
C907	24436471	CD, 470pF
C909	24679220	EL, 22μF, ±20%, 250V
C910	24797478	EL, 0.47μF, ±20%, 50V
C911	24203100	EL, 10μF, ±20%, 16V
C912	24794102	EL, 1000μF, ±20%, 16V
C913	24763102	EL, 1000μF, ±20%, 16V
C914	24212103	CD, 0.01μF, ±10%
C915	24092398	CD, 0.1μF, +80%,–20%
C920	24591104	PF, 0.1μF
C921	24591104	PF, 0.1μF
C930	24214101	CD, 100pF, ±10%, 500V
C931	24214101	CD, 100pF, ±10%, 500V
C4031	24591562	PF, 5600pF
C4041	24797229	EL, 2.2μF, ±20%, 50V
C4301	24797010	EL, 1μF, ±20%, 50V
C4303	24591433	PF, 0.043μF
C4304	24591153	PF, 0.015μF
C4305	24794101	EL, 100μF, ±20%, 16V
C4306	24232103	CD, 0.01μF, +80%, –20%
C4307	24232103	CD, 0.01μF, +80%, –20%
C4311	24794471	EL, 470μF, ±20%, 16V
C4371	24591393	PF, 0.039μF
C4372	24617915	EL, 1μF, ±10%, 50V
C4373	24539474	PF, 0.47μF
C4375	24590203	PF, 0.02μF
C4377	24590102	PF, 1000pF
C4378	24617787	EL, 470μF, ±20%, 16V
C4379	24794101	EL, 100μF, ±20%, 16V
C4380	24212102	CD, 1000pF, ±10%
C4381	24797478	EL, 0.47μF, ±20%, 50V
C4382	24539684	PF, 0.68μF

Location No.	Part No.	Description
C4401	24232103	CD, 0.01μF, +80%, –20%
C4402	24232103	CD, 0.01μF, +80%, –20%
C4403	24501561	PF, 560pF
C4404	24501132	PF, 1300pF
C4405	24797479	EL, 4.7μF, ±20%, 50V
C4406	24232103	CD, 0.01μF, +80%, –20%
C4408	24766229	EL, 2.2μF, ±20%, 50V
C4412	24501132	PF, 1300pF
C4413	24501102	PF, 1000pF
C4414	24232103	CD, 0.01μF, +80%, –20%
C4415	24567474	PF, 0.47μF
C4416	24501161	PF, 160pF
C4417	24590332	PF, 3300pF
C4421	24353330	CD, 33pF
C4466	24820472	PF, 4700pF, 630V
C4490	24082646	PF, 0.24μF, 400V
C4491	24082646	PF, 0.24μF, 400V
CA13	24212101	CD, 100pF, ±10%
CA30	24212101	CD, 100pF, ±10%
CA33	24232103	CD, 0.01μF, +80%, –20%
CA42	24794100	EL, 10μF, ±20%, 16V
CA43	24232103	CD, 0.01μF, +80%, –20%
CA44	24232103	CD, 0.01μF, +80%, –20%
CA68	24794100	EL, 10μF, ±20%, 16V
CA69	24232103	CD, 0.01μF, +80%, –20%
CB01	24794470	EL, 47μF, ±20%, 16V
CB90	24232103	CD, 0.01μF, +80%, –20%
CC10	24212101	CD, 100pF, ±10%
CC20	24212102	CD, 1000pF, ±10%
CC21	24436470	CD, 47pF
CC22	24436470	CD, 47pF
CC30	24475222	CD, 2200pF, 16V
CC36	24232103	CD, 0.01μF, +80%, –20%
CC37	24212103	CD, 0.01μF, ±10%
CD01	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD02	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD03	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD04	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD05	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD06	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD07	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD08	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD11	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD12	24814473	Chip, 0.047μF, +80%,–20%
CD13	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD14	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD15	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD16	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD20	24815222	Chip, 2200pF, ±10%
CD23	24203100	EL, 10μF, ±20%, 16V
CD24	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD25	24815222	Chip, 2200pF, ±10%
CD26	24203100	EL, 10μF, ±20%, 16V
CD27	24203100	EL, 10μF, ±20%, 16V
CD28	24202101	EL, 100μF, 10V
CD29	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD30	24203100	EL, 10μF, ±20%, 16V
CD31	24203220	EL, 22μF, ±20%, 16V
CD32	24206010	EL, 1μF, 50V
CD33	24590823	PF, 0.082μF
CD34	24538104	PF, 0.1μF
CD35	24567124	pf, 0.12μF
CD36	24781102	Chip, 1000pF, SL
CD38	24206010	EL, 1μF, 50V

Location No.	Part No.	Description
CD39	24206010	EL, 1μF, 50V
CD40	24206010	EL, 1μF, 50V
CD41	24814103	Chip, 0.01μF, +80%, −20%
CD42	24203101	EL, 100μF, ±20%, 16V
CD43	24206010	EL, 1μF, 50V
CD44	24590273	PF, 0.027μF
CD45	24590822	PF, 8200pF
CD46	24567273	PF, 0.027μF
CD47	24206010	EL, 1μF, 50V
CD48	24567273	PF, 0.027μF
CD49	24567823	PF, 0.082μF
CD50	24567823	PF, 0.082μF
CD51	24203100	EL, 10μF, ±20%, 16V
CD52	24203100	EL, 10μF, ±20%, 16V
CD53	24203100	EL, 10μF, ±20%, 16V
CD54	24092293	Chip, 0.1μF, +80%,−20%, 25V
CD55	24815222	Chip, 2200pF, ±10%
CD56	24814103	Chip, 0.01μF, +80%, −20%
CD57	24814103	Chip, 0.01μF, +80%, −20%
CD58	24202101	EL, 100μF, 10V
CD59	24092293	Chip, 0.1μF, +80%,−20%, 25V
CD60	24815222	Chip, 2200pF, ±10%
CD63	24203100	EL, 10μF, ±20%, 16V
CD64	24092293	Chip, 0.1μF, +80%,−20%, 25V
CD65	24815222	Chip, 2200pF, ±10%
CD66	24203100	EL, 10μF, ±20%, 16V
CD67	24203100	EL, 10μF, ±20%, 16V
CD68	24202101	EL, 100μF, 10V
CD69	24092293	Chip, 0.1μF, +80%,−20%, 25V
CD70	24815222	Chip, 2200pF, ±10%
CD72	24092293	Chip, 0.1μF, +80%,−20%, 25V
CD73	24092293	Chip, 0.1μF, +80%,−20%, 25V
CD74	24203100	EL, 10μF, ±20%, 16V
CD75	24092293	Chip, 0.1μF, +80%,−20%, 25V
CD76	24092293	Chip, 0.1μF, +80%,−20%, 25V
CD77	24203100	EL, 10μF, ±20%, 16V
CD78	24092293	Chip, 0.1μF, +80%,−20%, 25V
CD79	24092293	Chip, 0.1μF, +80%,−20%, 25V
CD80	24203100	EL, 10μF, ±20%, 16V
CD81	24202221	EL, 220μF, ±20%, 10V
CD82	24092293	Chip, 0.1μF, +80%,−20%, 25V
CD83	24202221	EL, 220μF, ±20%, 10V
CD84	24092293	Chip, 0.1μF, +80%,−20%, 25V
CD85	24202221	EL, 220μF, ±20%, 10V
CD86	24092293	Chip, 0.1μF, +80%,−20%, 25V
CD88	24794100	EL, 10μF, ±20%, 16V
CD89	24092293	Chip, 0.1μF, +80%,−20%, 25V
CD91	24814103	Chip, 0.01μF, +80%, −20%
CD92	24203220	EL, 22μF, ±20%, 16V
CD93	24092293	Chip, 0.1μF, +80%,−20%, 25V
CD94	24092293	Chip, 0.1μF, +80%,−20%, 25V
CD101	24814103	Chip, 0.01μF, +80%, −20%
CD102	24814103	Chip, 0.01μF, +80%, −20%
CD103	24781330	Chip, 33pF, SL
CD104	24781330	Chip, 33pF, SL
CD105	24814103	Chip, 0.01μF, +80%, −20%
CD106	24203100	EL, 10μF, ±20%, 16V
CD107	24287103	Chip, 0.01μF, +80%, −20%
CF03	24567104	PF, 0.1μF
CF04	24766101	PF, 0.1μF
CF05	24766101	PF, 0.1μF
CF06	24353220	CD, 22pF
CF07	24353220	CD, 22pF
CF08	24567104	PF, 0.1μF
CF09	24567104	PF, 0.1μF
CF10	24206100	EL, 10μF, 50V
CF11	24567104	PF, 0.1μF
CF12	24232103	CD, 0.01μF, +80%, −20%
CF14	24232103	CD, 0.01μF, +80%, −20%
CF17	24794101	EL, 100μF, ±20%, 16V
CF18	24794101	EL, 100μF, ±20%, 16V
CF19	24232103	CD, 0.01μF, +80%, −20%
CK01	24203220	EL, 22μF, ±20%, 16V
CK02	24085981	EL, 10μF, ±20%, 16V, NP
CK03	24815103	Chip, 0.01μF, ±10%, B
CK04	24092293	Chip, 0.1μF, +80%,−20%, 25V
CK05	24781101	Chip, 100pF, SL
CK06	24781681	Chip, 680pF, SL
CK09	24815103	Chip, 0.01μF, ±10%, B
CK10	24092293	Chip, 0.1μF, +80%,−20%, 25V
CK11	24814103	Chip, 0.01μF, +80%, −20%
CK12	24815103	Chip, 0.01μF, ±10%, B
CK13	24815103	Chip, 0.01μF, ±10%, B
CK14	24815103	Chip, 0.01μF, ±10%, B
CK16	24815103	Chip, 0.01μF, ±10%, B
CK18	24203101	EL, 100μF, ±20%, 16V
CK19	24814103	Chip, 0.01μF, +80%, −20%
CK21	24781101	Chip, 100pF, SL
CK23	24665101	EL, 100μF, ±20%, 10V
CK24	24781101	Chip, 100pF, SL
CK25	24781101	Chip, 100pF, SL
CK26	24781101	Chip, 100pF, SL
CK27	24781101	Chip, 100pF, SL
CK28	24781101	Chip, 100pF, SL
CK29	24781101	Chip, 100pF, SL
CK30	24795330	EL, 33μF, ±20%, 25V
CK31	24206479	EL, 4.7μF, 50V
CK32	24781471	Chip, 470pF, SL
CK35	24781101	Chip, 100pF, SL
CK36	24781101	Chip, 100pF, SL
CK37	24781101	Chip, 100pF, SL
CK38	24781101	Chip, 100pF, SL
CK39	24781330	Chip, 33pF, SL
CK40	24781330	Chip, 33pF, SL
CK41	24781391	Chip, 390pF, SL
CK42	24781102	Chip, 1000pF, SL
CK43	24814103	Chip, 0.01μF, +80%, −20%
CK44	24814103	Chip, 0.01μF, +80%, −20%
CK45	24781391	Chip, 390pF, SL
CK46	24781101	Chip, 100pF, SL
CK47	24781330	Chip, 33pF, SL
CK48	24781330	Chip, 33pF, SL
CK49	24814103	Chip, 0.01μF, +80%, −20%
CK50	24203100	EL, 10μF, ±20%, 16V
CK51	24814103	Chip, 0.01μF, +80%, −20%
CK53	24781101	Chip, 100pF, SL
CK57	24781330	Chip, 33pF, SL
CK58	24781330	Chip, 33pF, SL
CK59	24794100	EL, 10μF, ±20%, 16V
CK60	24092293	Chip, 0.1μF, +80%,−20%, 25V
CK62	24781101	Chip, 100pF, SL
CK65	24781330	Chip, 33pF, SL
CK66	24794220	EL, 22μF, ±20%, 16V
CK67	24794220	EL, 22μF, ±20%, 16V
CK68	24794100	EL, 10μF, ±20%, 16V
CK69	24794100	EL, 10μF, ±20%, 16V
CK70	24794220	EL, 22μF, ±20%, 16V
CK71	24794220	EL, 22μF, ±20%, 16V

Location No.	Part No.	Description
CK72	24794100	EL, 10μF, ±20%, 16V
CK73	24815103	Chip, 0.01μF, ±10%, B
CK74	24794100	EL, 10μF, ±20%, 16V
CK82	24206010	EL, 1μF, 50V
CK83	24781330	Chip, 33pF, SL
CK84	24781100	Chip, 10pF, ±0.5%, SL
CK85	24781330	Chip, 33pF, SL
CK87	24092293	Chip, 0.1μF, +80%,-20%, 25V
CK89	24781102	Chip, 1000pF, SL
CK90	24781102	Chip, 1000pF, SL
CK181	24781152	Chip, 1500pF, SL
CK190	24794100	EL, 10μF, ±20%, 16V
CK191	24794100	EL, 10μF, ±20%, 16V
CQ01	24436102	CD, 1000pF (32MW7DG)
CQ17	24353150	CD, 15pF (32MW7DG)
CQ18	24436910	CD, 91pF (32MW7DG)
CQ19	24590103	PF, 0.01μF
CQ20	24538104	PF, 0.1μF
CQ21	24794470	EL, 47μF, ±20%, 16V
CQ22	24232103	CD, 0.01μF, +80%, -20%
CQ23	24538104	PF, 0.1μF
CQ24	24538104	PF, 0.1μF
CQ25	24797100	EL, 10μF, ±20%, 50V
CQ26	24538104	PF, 0.1μF
CQ27	24538104	PF, 0.1μF
CQ28	24797478	EL, 0.47μF, ±20%, 50V
CQ29	24794101	EL, 100μF, ±20%, 16V
CQ30	24232103	CD, 0.01μF, +80%, -20%
CQ31	24797478	EL, 0.47μF, ±20%, 50V
CQ32	24590103	PF, 0.01μF
CQ33	24538104	PF, 0.1μF
CQ34	24538104	PF, 0.1μF
CQ35	24206478	EL, 0.47μF, 50V
CQ36	24206478	EL, 0.47μF, 50V
CQ37	24797010	EL, 1μF, ±20%, 50V
CQ38	24797010	EL, 1μF, ±20%, 50V
CQ39	24797010	EL, 1μF, ±20%, 50V
CQ40	24436910	CD, 91pF
CQ45	24212102	CD, 1000pF, ±10%(32MW7DG)
CQ46	24212102	CD, 1000pF, ±10%(32MW7DG)
CQ60	24797229	EL, 2.2μF, ±20%, 50V (32MW7DB)
CR12	24538104	PF, 0.1μF
CR13	24538104	PF, 0.1μF
CR14	24538104	PF, 0.1μF
CR21	24232103	CD, 0.01μF, +80%, -20%
CR22	24203470	EL, 47μF, ±20%, 16V
CR23	24794101	EL, 100μF, ±20%, 16V
CR24	24794101	EL, 100μF, ±20%, 16V
CR25	24794101	EL, 100μF, ±20%, 16V
CR26	24590223	PF, 0.022μF
CR27	24590223	PF, 0.022μF
CR28	24590223	PF, 0.022μF
CR29	24794100	EL, 10μF, ±20%, 16V
CR30	24591223	PF, 0.022μF
CR31	24797229	EL, 2.2μF, ±20%, 50V
CR32	24591223	PF, 0.022μF
CR33	24232103	CD, 0.01μF, +80%, -20%
CR35	24794331	EL, 330μF, ±20%, 16V
CR36	24092398	CD, 0.1μF, +80%, -20%
CR40	24794470	EL, 47μF, ±20%, 16V
CR41	24232103	CD, 0.01μF, +80%, -20%
CR42	24794101	EL, 100μF, ±20%, 16V
CR43	24794101	EL, 100μF, ±20%, 16V
CR44	24794101	EL, 100μF, ±20%, 16V
CS01	24085944	EL, 2.2μF, ±20%, 50V, NP
CS02	24085944	EL, 2.2μF, ±20%, 50V, NP
CS03	24206229	EL, 2.2μF, 50V
CS04	24206229	EL, 2.2μF, 50V
CS05	24206229	EL, 2.2μF, 50V
CS06	24206229	EL, 2.2μF, 50V
CS07	24206229	EL, 2.2μF, 50V
CS08	24206229	EL, 2.2μF, 50V
CS09	24206010	EL, 1μF, 50V
CS12	24474102	CD, 1000pF, ±10%
CS13	24474102	CD, 1000pF, ±10%
CS14	24206100	EL, 10μF, 50V
CS15	24206100	EL, 10μF, 50V
CS17	24203100	EL, 10μF, ±20%, 16V
CS18	24203100	EL, 10μF, ±20%, 16V
CS19	24206478	EL, 0.47μF, 50V
CS22	24666100	EL, 10μF, ±20%, 16V
CS23	24666100	EL, 10μF, ±20%, 16V
CV01	24590103	PF, 0.01μF
CV02	24085970	EL, 10μF, ±20%, 16V, NP
CV03	24666100	EL, 10μF, ±20%, 16V
CV04	24666100	EL, 10μF, ±20%, 16V
CV05	24232103	CD, 0.01μF, +80%, -20%
CV06	24666100	EL, 10μF, ±20%, 16V
CV07	24232103	CD, 0.01μF, +80%, -20%
CV08	24763102	EL, 1000μF, ±20%, 16V
CV09	24666100	EL, 10μF, ±20%, 16V
CV10	24085970	EL, 10μF, ±20%, 16V, NP
CV11	24436331	CD, 330pF
CV12	24092398	CD, 0.1μF, +80%,-20%
CV13	24232103	CD, 0.01μF, +80%, -20%
CV14	24474102	CD, 1000pF, ±10%
CV15	24474102	CD, 1000pF, ±10%
CV16	24474102	CD, 1000pF, ±10%
CV17	24474102	CD, 1000pF, ±10%
CV18	24474102	CD, 1000pF, ±10%
CV19	24474102	CD, 1000pF, ±10%
CV20	24353330	CD, 33pF
CV23	24666101	EL, 100μF, ±20%, 16V
CV24	24232103	CD, 0.01μF, +80%, -20%
CV25	24763471	EL, 470μF, ±20%, 16V
CV34	24474102	CD, 1000pF, ±10%
CV35	24212102	CD, 1000pF, ±10%
CV37	24474102	CD, 1000pF, ±10%
CV39	24666101	EL, 100μF, ±20%, 16V
CV40	24232103	CD, 0.01μF, +80%, -20%
CV46	24212332	CD, 3300pF, ±10%
CV47	24212332	CD, 3300pF, ±10%
CV48	24212102	CD, 1000pF, ±10%
CV65	24666101	EL, 100μF, ±20%, 16V
CV66	24666101	EL, 100μF, ±20%, 16V
CV67	24763471	EL, 470μF, ±20%, 16V
CV68	24763471	EL, 470μF, ±20%, 16V
CV80	24232103	CD, 0.01μF, +80%, -20%
CX102	24085939	EL, 4.7μF, ±20%, 25V, NP
CX103	24092399	Chip, 0.1μF, +80%,-20%, 16v
CX104	24092399	Chip, 0.1μF, +80%,-20%, 16v
CX105	24105330	Chip, 33pF
CX106	24105680	Chip, 68pF
CX107	24105330	Chip, 33pF
CX108	24092399	Chip, 0.1μF, +80%,-20%, 16v
CX109	24085945	EL, 2.2μF, ±20%, 50V, NP
CX110	24665471	EL, 470μF, ±20%, 10V

Location No.	Part No.	Description
CX111	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX112	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX113	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX114	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX115	24203470	EL, 47μF, ±20%, 16V
CX116	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX117	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX118	24794101	EL, 100μF, ±20%, 16V
CX119	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX120	24105470	Chip, 47pF
CX125	24105101	Chip, 100pF
CX126	24105271	Chip, 270pF
CX127	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX128	24085971	EL, 3.3μF, ±20%, NP
CX129	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX130	24794101	EL, 100μF, ±20%, 16V
CX131	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX132	24794101	EL, 100μF, ±20%, 16V
CX133	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX134	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX136	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX137	24665101	EL, 100μF, ±20%, 10V
CX138	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX139	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX140	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX141	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX146	24105470	Chip, 47pF
CX147	24105101	Chip, 100pF
CX148	24105271	Chip, 270pF
CX149	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX150	24085971	EL, 3.3μF, ±20%, NP
CX151	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX152	24203470	EL, 47μF, ±20%, 16V
CX153	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX154	24794101	EL, 100μF, ±20%, 16V
CX155	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX156	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX157	24105150	Chip, 15pF
CX158	24105330	Chip, 33pF
CX201	24203470	EL, 47μF, ±20%, 16V
CX202	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX203	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX204	24203220	EL, 22μF, ±20%, 16V
CX205	24665101	EL, 100μF, ±20%, 10V
CX206	24203101	EL, 100μF, ±20%, 16V
CX207	24665101	EL, 100μF, ±20%, 10V
CX208	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX209	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX210	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX211	24203100	EL, 10μF, ±20%, 16V
CX212	24665101	EL, 100μF, ±20%, 10V
CX220	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX221	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX222	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX223	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX224	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX226	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX227	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX228	24092441	Chip, 1μF, +80%,–20%, 16V
CX229	24092441	Chip, 1μF, +80%,–20%, 16V
CX230	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX232	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX233	24762102	EL, 1000μF, ±20%, 10V
CX234	24762102	EL, 1000μF, ±20%, 10V

Location No.	Part No.	Description
CX242	24105330	Chip, 33pF
CX301	24665101	EL, 100μF, ±20%, 10V
CX302	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX303	24665101	EL, 100μF, ±20%, 10V
CX304	24092399	Chip, 0.1μF, +80%,–20%, 16v
CX305	24092441	Chip, 1μF, +80%,–20%, 16V
CX306	24105330	Chip, 33pF
CX307	24105330	Chip, 33pF
CX308	24105101	Chip, 100pF
CX309	24105680	Chip, 68pF
CX310	24105101	Chip, 100pF
CX311	24105680	Chip, 68pF
CX312	24105100	Chip, 10pF
CX313	24105100	Chip, 10pF
CX314	24105100	Chip, 10pF
CX400	24108221	Chip, 220pF
CX401	24108330	Chip, 33pF
CX402	24108330	Chip, 33pF
CX403	24108221	Chip, 220pF
CX404	24108221	Chip, 220pF
CX405	24108221	Chip, 220pF
CX406	24108221	Chip, 220pF
CX407	24108331	Chip, 330pF
CX408	24108221	Chip, 220pF
CX409	24105120	Chip, 12pF
CX410	24105220	Chip, 22pF
CX411	24105220	Chip, 22pF
CX412	24105220	Chip, 22pF
CX413	24105220	Chip, 22pF
CX414	24105220	Chip, 22pF
CX415	24108221	Chip, 220pF
CX801	24763471	EL, 470μF, ±20%, 16V
CX802	24092399	Chip, 0.1μF, +80%,–20%, 16V
CX803	24665471	EL, 470μF, ±20%, 10V
CX804	24092399	Chip, 0.1μF, +80%,–20%, 16V
CX805	24092399	Chip, 0.1μF, +80%,–20%, 16V
CX806	24092399	Chip, 0.1μF, +80%,–20%, 16V
CZ08	24203100	EL, 10μF, ±20%, 16V
CZ09	24436220	CD, 22pF
CZ10	24473180	CD, 18pF
CZ11	24473100	CD, 10pF
CZ12	24232103	CD, 0.01μF, +80%, –20%
CZ13	24092398	CD, 0.1μF, +80%,–20%
CZ14	24617816	EL, 10μF, ±20%, 50V
CZ15	24232103	CD, 0.01μF, +80%, –20%
CZ16	24206478	EL, 0.47μF, 50V
CZ17	24232103	CD, 0.01μF, +80%, –20%
CZ19	24436181	CD, 180pF
CZ20	24538103	PF, 0.01μF
CZ21	24436390	CD, 39pF
CZ22	24617816	EL, 10μF, ±20%, 50V
CZ23	24092398	CD, 0.1μF, +80%,–20%
CZ24	24092398	CD, 0.1μF, +80%,–20%
CZ25	24203101	EL, 100μF, ±20%, 16V
CZ26	24232103	CD, 0.01μF, +80%, –20%
CZ28	24232103	CD, 0.01μF, +80%, –20%
CZ29	24092398	CD, 0.1μF, +80%,–20%
CZ30	24617816	EL, 10μF, ±20%, 50V
CZ32	24436120	CD, 12pF
CZ33	24436120	CD, 12pF
CZ34	24473120	CD, 12pF
CZ35	24473120	CD, 12pF
CZ37	24092398	CD, 0.1μF, +80%,–20%
CZ38	24092398	CD, 0.1μF, +80%,–20%

Location No.	Part No.	Description
CZ45	24436100	CD, 10pF, ±0.25pF
CZ48	24203470	EL, 47μF, ±20%, 16V
RESISTORS		
R001J	24000576	Chip, Jumper, 3216 type
R002J	24000824	Chip, Jumper, 2125 type
R003J	24000824	Chip, Jumper, 2125 type
R004J	24000824	Chip, Jumper, 2125 type
R005J	24000824	Chip, Jumper, 2125 type
R006J	24000576	Chip, Jumper, 3216 type
R007J	24000576	Chip, Jumper, 3216 type
R008J	24000576	Chip, Jumper, 3216 type
R009J	24000576	Chip, Jumper, 3216 type
R010J	24000576	Chip, Jumper, 3216 type
R011J	24000576	Chip, Jumper, 3216 type
R012J	24000576	Chip, Jumper, 3216 type
R013J	24000576	Chip, Jumper, 3216 type
R014J	24000576	Chip, Jumper, 3216 type
R017J	24000576	Chip, Jumper, 3216 type
R018J	24000576	Chip, Jumper, 3216 type
R019J	24000576	Chip, Jumper, 3216 type
R020J	24000576	Chip, Jumper, 3216 type
R021J	24000824	Chip, Jumper, 2125 type
R022J	24000576	Chip, Jumper, 3216 type
R023J	24000576	Chip, Jumper, 3216 type
R024J	24000824	Chip, Jumper, 2125 type
R025J	24000824	Chip, Jumper, 2125 type
R026J	24000824	Chip, Jumper, 2125 type
R027J	24000576	Chip, Jumper, 3216 type
R028J	24000576	Chip, Jumper, 3216 type
R029J	24000824	Chip, Jumper, 2125 type
R030J	24000824	Chip, Jumper, 2125 type
R031J	24000824	Chip, Jumper, 2125 type
R032J	24000576	Chip, Jumper, 3216 type
R033J	24000576	Chip, Jumper, 3216 type
R034J	24000576	Chip, Jumper, 3216 type
R035J	24000824	Chip, Jumper, 2125 type
R101	24382223	OMF, 22k ohm, 1W
R201	24366681	CF, 680 ohm
R202	24366821	CF, 820 ohm
R204	24366104	CF, 100k ohm
R205	24366101	CF, 100 ohm
R206	24366222	CF, 2200 ohm
R207	24366101	CF, 100 ohm
R208	24366103	CF, 10k ohm
R208	24366101	CF, 100 ohm
R209	24366103	CF, 10k ohm
R209	24366101	CF, 100 ohm
R211	24366563	CF, 56k ohm
R212	24366472	CF, 4700 ohm
R213	24366472	CF, 4700 ohm
R214	24366222	CF, 2200 ohm
R215	24366102	CF, 1k ohm
R216	24366103	CF, 10k ohm
R217	24366332	CF, 3300 ohm
R217	24366101	CF, 100 ohm
R218	24366473	CF, 47k ohm
R220	24366102	CF, 1k ohm
R221	24366102	CF, 1k ohm
R223	24366102	CF, 1k ohm
R226	24366101	CF, 100 ohm
R227	24367223	CF, 22k ohm, ±2%
R229	24366472	CF, 4700 ohm
R231	24366100	CF, 10 ohm
R232	24366103	CF, 10k ohm
R233	24366104	CF, 100k ohm
R234	24366271	CF, 270 ohm
R235	24366472	CF, 4700 ohm
R236	24366102	CF, 1k ohm
R237	24366103	CF, 10k ohm
R299	24366103	CF, 10k ohm
R303	24321109	MF, 1 ohm, 1/2W
R304	24366153	CF, 15k ohm
R305	24322189	MF, 1.8 ohm, 1W
R306	24366222	CF, 2200 ohm
R307	24366621	CF, 620 ohm
R308	24366472	CF, 4700 ohm
R309	24366303	CF, 30k ohm
R310	24366102	CF, 1k ohm
R311	24366472	CF, 4700 ohm
R312	24366103	CF, 10k ohm
R313	24366273	CF, 27k ohm
R317	24366472	CF, 4700 ohm
R321	24366133	CF, 13k ohm
R322	24366102	CF, 1k ohm
R323	24366103	CF, 10k ohm
R324	24366681	CF, 680 ohm
R325	24366103	CF, 10k ohm
R325	24366103	CF, 10k ohm
R327	24339159	MF, 1.5 ohm, 2W
R328	24366471	CF, 470 ohm
R330	24366103	CF, 10k ohm
R336	24383391	OMF, 390 ohm, 2W
R344	24383331	OMF, 330 ohm, 2W
R360	24366103	CF, 10k ohm
R370	24322129	MF, 1.2 ohm, 1W
R371	24366562	CF, 5600 ohm
R372	24366392	CF, 3900 ohm
R373	24366182	CF, 1800 ohm
R374	24366153	CF, 15k ohm
R380	24366103	CF, 10k ohm
R381	24366103	CF, 10k ohm
R382	24366302	CF, 3k ohm
R383	24366272	CF, 2700 ohm
R384	24366102	CF, 1k ohm
R387	24382121	OMF, 120 ohm, 1W
R388	24382121	OMF, 120 ohm, 1W
R389	24383121	OMF, 120 ohm, 2W
R397	24382121	OMF, 120 ohm, 1W
R398	24382121	OMF, 120 ohm, 1W
R399	24366684	CF, 680k ohm
R401	24366391	CF, 390 ohm
R402	24366103	CF, 10k ohm
R402	24366103	CF, 10k ohm
R403	24366242	CF, 2400 ohm
R405	24553682	OMF, 6800 ohm, 1W
R407	24366103	CF, 10k ohm
R411	24366560	CF, 56 ohm
R415	24553561	OMF, 560 ohm, 1W
R416	24381563	OMF, 56k ohm, 1/2W
R417	24510101	Cement, 100 ohm, 5W
R422	24366101	CF, 100 ohm
R424	24366152	CF, 1500 ohm
R425	24366182	CF, 1800 ohm
R426	24366202	CF, 2k ohm
R427	24366392	CF, 3900 ohm
R428	24366561	CF, 560 ohm
R429	24552560	OMF, 56 ohm, 1/2W

Location No.	Part No.	Description
R435	24366184	CF, 180k ohm
R436	24366101	CF, 100 ohm
R437	24366471	CF, 470 ohm
R438	24552102	OMF, 1k ohm, 1/2W
R441	24383561	OMF, 560 ohm, 2W
R443	24381150	OMF, 15 ohm, 1/2W
R445	24321129	MF, 1.2 ohm, 1/2W
R451	24061546	VR, 100 ohm, 3W
R460	24552332	OMF, 3300 ohm, 1/2W
R461	24552182	OMF, 1800 ohm, 1/2W
R463	24323229	MF, 2.2 ohm, 2W
R464	24366273	CF, 27k ohm
R465	24366101	CF, 100 ohm
R466	24366562	CF, 5600 ohm
R467	24327224	MF, 220k ohm, ±1%, 1/4W
R468	24366163	CF, 16k ohm
R469	24531150	FR, 15 ohm, 1/2W
R470	24339568	OMF, 0.56 ohm, 2W
R471	24531271	FR, 270 ohm, 1/2W
R473	24366473	CF, 47k ohm
R474	24366473	CF, 47k ohm
R478	24381333	OMF, 33k ohm, 1/2W
R479	24531680	FR, 68 ohm, 1/2W
R481	24366223	CF, 22k ohm
R482	24366103	CF, 10k ohm
R487	24366474	CF, 470k ohm
R488	24366154	CF, 150k ohm
R490	24366101	CF, 100 ohm
R491	24366101	CF, 100 ohm
R492	24366272	CF, 2700 ohm
R501	24366223	CF, 22k ohm
R502	24366101	CF, 100 ohm
R503	24366101	CF, 100 ohm
R505	24366102	CF, 1k ohm
R506	24366103	CF, 10k ohm
R508	24366102	CF, 1k ohm
R509	24366102	CF, 1k ohm
R510	24366102	CF, 1k ohm
R511	24366101	CF, 100 ohm
R512	24366101	CF, 100 ohm
R513	24366472	CF, 4700 ohm
R514	24366472	CF, 4700 ohm
R515	24366472	CF, 4700 ohm
R518	24366472	CF, 4700 ohm
R519	24366101	CF, 100 ohm
R520	24366103	CF, 10k ohm
R521	24366223	CF, 22k ohm
R522	24366473	CF, 47k ohm
R609	24366563	CF, 56k ohm
R610	24366103	CF, 10k ohm
R611	24366103	CF, 10k ohm
R612	24366103	CF, 10k ohm
R630	24366102	CF, 1k ohm
R631	24366562	CF, 5600 ohm
R632	24366223	CF, 22k ohm
R633	24366223	CF, 22k ohm
R634	24366229	CF, 2.2 ohm
R640	24366102	CF, 1k ohm
R641	24366392	CF, 3900 ohm
R642	24366222	CF, 2200 ohm
R643	24366562	CF, 5600 ohm
R644	24366473	CF, 47k ohm
R645	24366229	CF, 2.2 ohm
R646	24366223	CF, 22k ohm

Location No.	Part No.	Description
R648	24366229	CF, 2.2 ohm
R661	24552221	OMF, 220 ohm, 1/2W
R661	24510159	Cement, 1.5 ohm, 5W
R662	24552221	OMF, 220 ohm, 1/2W
R670	24366272	CF, 2700 ohm
R671	24366102	CF, 1k ohm
R671	24366392	CF, 3900 ohm
R672	24366102	CF, 1k ohm
R672	24366272	CF, 2700 ohm
R673	24366392	CF, 3900 ohm
R673	24366102	CF, 1k ohm
R674	24366332	CF, 3300 ohm
R675	24366272	CF, 2700 ohm
R675	24366102	CF, 1k ohm
R676	24366223	CF, 22k ohm
R676	24366223	CF, 22k ohm
R677	24366223	CF, 22k ohm
R677	24366223	CF, 22k ohm
R678	24366223	CF, 22k ohm
R679	24366223	CF, 22k ohm
R680	24366473	CF, 47k ohm
R680	24366223	CF, 22k ohm
R681	24366223	CF, 22k ohm
R682	24366104	CF, 100k ohm
R683	24366273	CF, 27k ohm
R684	24366229	CF, 2.2 ohm
R685	24366229	CF, 2.2 ohm
R686	24366229	CF, 2.2 ohm
R687	24366222	CF, 2200 ohm
R688	24366222	CF, 2200 ohm
R689	24366104	CF, 100k ohm
R690	24366681	CF, 680 ohm
R691	24366681	CF, 680 ohm
R692	24366681	CF, 680 ohm
R693	24366681	CF, 680 ohm
R702	24552221	OMF, 220 ohm, 1/2W
R712	24366101	CF, 100 ohm
R715	24366223	CF, 22k ohm
R716	24366273	CF, 27k ohm
R717	24366333	CF, 33k ohm
R718	24366102	CF, 1k ohm
R722	24552471	OMF, 470 ohm, 1/2W
R723	24366151	CF, 150 ohm
R724	24366680	CF, 68 ohm
R725	24366182	CF, 1800 ohm
R730	24552100	OMF, 10 ohm, 1/2W
R731	24553331	OMF, 330 ohm, 1W
R732	24366220	CF, 22 ohm
R733	24366683	CF, 68k ohm
R734	24366220	CF, 22 ohm
R735	24366683	CF, 68k ohm
R736	24366560	CF, 56 ohm
R737	24366152	CF, 1500 ohm
R738	24366123	CF, 12k ohm
R739	24366152	CF, 1500 ohm
R740	24366560	CF, 56 ohm
R741	24366279	CF, 2.7 ohm
R742	24366279	CF, 2.7 ohm
R743	24554101	OMF, 100 ohm, 2W
R744	24366122	CF, 1200 ohm
R745	24366122	CF, 1200 ohm
R801	24009954	Metal-Glazed Resistor, 2.2M ohm, 1/2W
R802	24321568	MF, 0.56 ohm, 1/2W

Location No.	Part No.	Description
R803	24382683	OMF, 68k ohm, 1W
R805	24552101	OMF, 100 ohm, 1/2W
R806	24552392	OMF, 3900 ohm, 1/2W
R808	24019340	PTC Thermistor, 18 ohm, 290V
R810	24007864	Cement, 3 ohm, 15W
R811	24568271	Cement, 270 ohm, 7W
R814	24366122	CF, 1200 ohm
R815	24552102	OMF, 1k ohm, 1/2W
R816	24323689	MF, 6.8 ohm, 2W
R818	24322228	MF, 0.22 ohm, 1W
R819	24321209	MF, 2 ohm, 1/2W
R821	24366101	CF, 100 ohm
R822	24552103	OMF, 10k ohm, 1/2W
R823	24366272	CF, 2700 ohm
R824	24569101	Cement, 100 ohm, 10W
R825	24569100	Cement, 10 ohm, 10W
R827	24366681	CF, 680 ohm
R828	24366821	CF, 820 ohm
R829	24322228	MF, 0.22 ohm, 1W
R831	24366471	CF, 470 ohm
R832	24366472	CF, 4700 ohm
R833	24366222	CF, 2200 ohm
R841	24531120	FR, 12 ohm, 1/2W
R842	24552392	OMF, 3900 ohm, 1/2W
R846	24366561	CF, 560 ohm
R847	24366472	CF, 4700 ohm
R849	24366471	CF, 470 ohm
R890	24553333	OMF, 33k ohm, 1W
⚠R899	24005007	Metal-Glazed Resistor, 8.2M ohm, 1W
R901	24376821	CF, 820 ohm, 1/2W
R902	24376821	CF, 820 ohm, 1/2W
R903	24376821	CF, 820 ohm, 1/2W
R904	24366472	CF, 4700 ohm
R905	24366150	CF, 15 ohm
R906	24366102	CF, 1k ohm
R907	24366102	CF, 1k ohm
R908	24366102	CF, 1k ohm
R909	24366222	CF, 2200 ohm
R910	24552121	OMF, 120 ohm, 1/2W
R912	24366102	CF, 1k ohm
R914	24366101	CF, 100 ohm
R915	24366560	CF, 56 ohm
R916	24366820	CF, 82 ohm
R917	24366181	CF, 180 ohm
R918	24366100	CF, 10 ohm
R919	24366102	CF, 1k ohm
R920	24000880	FR, 5.1 ohm, 1W
R921	24366101	CF, 100 ohm
R922	24366560	CF, 56 ohm
R924	24366100	CF, 10 ohm
R925	24366181	CF, 180 ohm
R926	24366102	CF, 1k ohm
R928	24366101	CF, 100 ohm
R929	24366560	CF, 56 ohm
R930	24366100	CF, 10 ohm
R932	24366332	CF, 3300 ohm
R933	24366750	CF, 75 ohm
R934	24366391	CF, 390 ohm
R935	24366821	CF, 820 ohm
R936	24366750	CF, 75 ohm
R937	24366181	CF, 180 ohm
R939	24366101	CF, 100 ohm

Location No.	Part No.	Description
R942	24366392	CF, 3900 ohm
R943	24366392	CF, 3900 ohm
R944	24366392	CF, 3900 ohm
R945	24366820	CF, 82 ohm
R946	24366820	CF, 82 ohm
R960	24383153	OMF, 15k ohm, 2W
R961	24383153	OMF, 15k ohm, 2W
R962	24383153	OMF, 15k ohm, 2W
R963	24383153	OMF, 15k ohm, 2W
R964	24383153	OMF, 15k ohm, 2W
R965	24383153	OMF, 15k ohm, 2W
R966	24383153	OMF, 15k ohm, 2W
R967	24383153	OMF, 15k ohm, 2W
R968	24383153	OMF, 15k ohm, 2W
R969	24366101	CF, 100 ohm
R970	24366101	CF, 100 ohm
R971	24366101	CF, 100 ohm
R977	24366681	CF, 680 ohm
R980	24366471	CF, 470 ohm
R981	24366821	CF, 820 ohm
R982	24366103	CF, 10k ohm
R983	24366222	CF, 2200 ohm
R984	24366152	CF, 1500 ohm
R985	24366471	CF, 470 ohm
R986	24366681	CF, 680 ohm
R987	24366681	CF, 680 ohm
R988	24366472	CF, 4700 ohm
R989	24366332	CF, 3300 ohm
R990	24366222	CF, 2200 ohm
R991	24366681	CF, 680 ohm
R992	24366150	CF, 15 ohm
R4034	24366332	CF, 3300 ohm
R4301	24366222	CF, 2200 ohm
R4302	24366103	CF, 10k ohm
R4303	24019090	MF, 330k ohm, ±1%, 1/4W
R4305	24366331	CF, 330 ohm
R4306	24366472	CF, 4700 ohm
R4350	24066873	VR, 100k ohm, 0.3W
R4371	24366684	CF, 680k ohm
R4372	24366153	CF, 15k ohm
R4373	24366101	CF, 100 ohm
R4374	24366101	CF, 100 ohm
R4375	24366101	CF, 100 ohm
R4378	24366154	CF, 150k ohm
R4379	24366104	CF, 100k ohm
R4380	24366114	CF, 110k ohm
R4381	24366822	CF, 8200 ohm
R4382	24366153	CF, 15k ohm
R4383	24366105	CF, 1M ohm
R4384	24552222	OMF, 2200 ohm, 1/2W
R4401	24366103	CF, 10k ohm
R4402	24366222	CF, 2200 ohm
R4403	24000639	MF, 22k ohm, ±1%, 1/4W
R4404	24000364	MF, 1800 ohm, ±1%, 1/4W
R4405	24000247	MF, 39k ohm, ±1%, 1/4W
R4406	24000220	MF, 390 ohm, ±1%, 1/4W
R4408	24000637	MF, 15k ohm, ±1%, 1/4W
R4409	24000361	MF, 15k ohm, ±1%, 1/4W
R4410	24552470	OMF, 47 ohm, 1/2W
R4411	24366472	CF, 4700 ohm
R4412	24366103	CF, 10k ohm
R4413	24366132	CF, 1300 ohm
R4420	24000639	MF, 22k ohm, ±1%, 1/4W
R4421	24366103	CF, 10k ohm

Location No.	Part No.	Description
R4422	24366473	CF, 47k ohm
R4423	24366223	CF, 22k ohm
R4450	24066878	VR, 2k ohm, 0.3W
R4490	24382222	OMF, 2200 ohm, 1W
R4491	24366392	CF, 3900 ohm
R4492	24366103	CF, 10k ohm
R4493	24382104	OMF, 100k ohm, 1W
RA04	24366102	CF, 1k ohm
RA05	24366102	CF, 1k ohm
RA07	24366102	CF, 1k ohm
RA08	24366102	CF, 1k ohm
RA09	24366102	CF, 1k ohm
RA10	24366102	CF, 1k ohm
RA11	24366102	CF, 1k ohm
RA12	24366473	CF, 47k ohm
RA13	24366153	CF, 15k ohm
RA16	24366102	CF, 1k ohm
RA17	24366102	CF, 1k ohm
RA18	24366102	CF, 1k ohm
RA27	24366102	CF, 1k ohm
RA33	24366102	CF, 1k ohm
RA35	24366102	CF, 1k ohm
RA36	24366472	CF, 4700 ohm
RA37	24366101	CF, 100 ohm
RA38	24366101	CF, 100 ohm
RA61	24366103	CF, 10k ohm
RA62	24366103	CF, 10k ohm
RA63	24366103	CF, 10k ohm
RA64	24366103	CF, 10k ohm
RA69	24366470	CF, 47 ohm
RA70	24366333	CF, 33k ohm
RA71	24366683	CF, 68k ohm
RA72	24366223	CF, 22k ohm
RA73	24366103	CF, 10k ohm
RA74	24366103	CF, 10k ohm
RA75	24366333	CF, 33k ohm
RA76	24366103	CF, 10k ohm
RA77	24366472	CF, 4700 ohm
RA78	24366472	CF, 4700 ohm
RA79	24366103	CF, 10k ohm
RB01	24366271	CF, 270 ohm
RB02	24366271	CF, 270 ohm
RB09	24366470	CF, 47 ohm
RB10	24366101	CF, 100 ohm
RB11	24366103	CF, 10k ohm
RB30	24366103	CF, 10k ohm
RB40	24366103	CF, 10k ohm
RB41	24366182	CF, 1800 ohm
RB42	24366102	CF, 1k ohm
RB43	24366103	CF, 10k ohm
RB44	24366103	CF, 10k ohm
RB45	24366101	CF, 100 ohm
RB81	24366122	CF, 1200 ohm
RB82	24366123	CF, 12k ohm
RB83	24366123	CF, 12k ohm
RB84	24366562	CF, 5600 ohm
RB90	24366392	CF, 3900 ohm
RB91	24366473	CF, 47k ohm
RB92	24366271	CF, 270 ohm
RB93	24366271	CF, 270 ohm
RB94	24366222	CF, 2200 ohm
RB95	24366222	CF, 2200 ohm
RB96	24366273	CF, 27k ohm
RB97	24366273	CF, 27k ohm
RB98	24366102	CF, 1k ohm
RD01	24872101	Chip, 100 ohm, 1/16W
RD03	24871101	Chip, 100 ohm, 1/8W
RD04	24871101	Chip, 100 ohm, 1/8W
RD05	24872101	Chip, 100 ohm, 1/16W
RD06	24872101	Chip, 100 ohm, 1/16W
RD09	24872101	Chip, 100 ohm, 1/16W
RD10	24872101	Chip, 100 ohm, 1/16W
RD11	24872222	Chip, 2200 ohm, 1/16W
RD12	24872103	Chip, 10k ohm, 1/16W
RD13	24872472	Chip, 4700 ohm, 1/16W
RD21	24872221	Chip, 220 ohm, 1/16W
RD22	24872273	Chip, 27k ohm, 1/16W
RD23	24872221	Chip, 220 ohm, 1/16W
RD24	24872273	Chip, 27k ohm, 1/16W
RD27	24872101	Chip, 100 ohm, 1/16W
RD28	24872101	Chip, 100 ohm, 1/16W
RD29	24872101	Chip, 100 ohm, 1/16W
RD30	24872223	Chip, 22k ohm, 1/16W
RD31	24872223	Chip, 22k ohm, 1/16W
RD32	24872223	Chip, 22k ohm, 1/16W
RD33	24872101	Chip, 100 ohm, 1/16W
RD34	24872102	Chip, 1k ohm, 1/16W
RD35	24872102	Chip, 1k ohm, 1/16W
RD36	24872101	Chip, 100 ohm, 1/16W
RD39	24872101	Chip, 100 ohm, 1/16W
RD40	24872101	Chip, 100 ohm, 1/16W
RD41	24872223	Chip, 22k ohm, 1/16W
RD42	24872101	Chip, 100 ohm, 1/16W
RD43	24872101	Chip, 100 ohm, 1/16W
RD44	24872101	Chip, 100 ohm, 1/16W
RD51	24872221	Chip, 220 ohm, 1/16W
RD53	24872221	Chip, 220 ohm, 1/16W
RD61	24872221	Chip, 220 ohm, 1/16W
RD63	24872221	Chip, 220 ohm, 1/16W
RD71	24366100	CF, 10 ohm
RD75	24366100	CF, 10 ohm
RD79	24366100	CF, 10 ohm
RD81	24321109	MF, 1 ohm, 1/2W
RD82	24871151	Chip, 150 ohm, 1/8W
RD87	24872750	Chip, 75 ohm, 1/16W
RD88	24872222	Chip, 2200 ohm, 1/16W
RD89	24872151	Chip, 150 ohm, 1/16W
RD92	24872473	Chip, 47k ohm, 1/16W
RD93	24872222	Chip, 2200 ohm, 1/16W
RD94	24872101	Chip, 100 ohm, 1/16W
RD101	24872331	Chip, 330 ohm, 1/16W
RD102	24872331	Chip, 330 ohm, 1/16W
RD103	24872331	Chip, 330 ohm, 1/16W
RD104	24872331	Chip, 330 ohm, 1/16W
RD105	24872472	Chip, 4700 ohm, 1/16W
RD106	24872472	Chip, 4700 ohm, 1/16W
RD107	24872472	Chip, 4700 ohm, 1/16W
RD108	24872472	Chip, 4700 ohm, 1/16W
RD109	24872472	Chip, 4700 ohm, 1/16W
RD110	24872472	Chip, 4700 ohm, 1/16W
RD111	24872101	Chip, 100 ohm, 1/16W
RD112	24872101	Chip, 100 ohm, 1/16W
RD113	24872472	Chip, 4700 ohm, 1/16W
RF01	24366222	CF, 2200 ohm
RF03	24366472	CF, 4700 ohm
RF04	24366472	CF, 4700 ohm
RF06	24366102	CF, 1k ohm
RF08	24366100	CF, 10 ohm

Location No.	Part No.	Description
RF09	24366100	CF, 10 ohm
RF10	24366100	CF, 10 ohm
RF11	24366103	CF, 10k ohm
RF12	24366101	CF, 100 ohm
RF13	24366101	CF, 100 ohm
RF14	24366101	CF, 100 ohm
RF15	24366103	CF, 10k ohm
RF16	24366471	CF, 470 ohm
RF20	24366472	CF, 4700 ohm
RF21	24366561	CF, 560 ohm
RF22	24366561	CF, 560 ohm
RF26	24366102	CF, 1k ohm
RK01	24872153	Chip, 15k ohm, 1/16W
RK02	24872471	Chip, 470 ohm, 1/16W
RK03	24872333	Chip, 33k ohm, 1/16W
RK04	24872122	Chip, 1200 ohm, 1/16W
RK05	24872561	Chip, 560 ohm, 1/16W
RK06	24872822	Chip, 8200 ohm, 1/16W
RK07	24872273	Chip, 27k ohm, 1/16W
RK08	24872222	Chip, 2200 ohm, 1/16W
RK09	24872122	Chip, 1200 ohm, 1/16W
RK10	24872821	Chip, 820 ohm, 1/16W
RK11	24872222	Chip, 2200 ohm, 1/16W
RK12	24872222	Chip, 2200 ohm, 1/16W
RK13	24872222	Chip, 2200 ohm, 1/16W
RK14	24872332	Chip, 3300 ohm, 1/16W
RK15	24872222	Chip, 2200 ohm, 1/16W
RK16	24872471	Chip, 470 ohm, 1/16W
RK17	24000450	Chip, 100 ohm, ±1%, 1/16W
RK23	24872472	Chip, 4700 ohm, 1/16W
RK29	24871103	Chip, 10k ohm, 1/8W
RK30	24871103	Chip, 10k ohm, 1/8W
RK31	24871103	Chip, 10k ohm, 1/8W
RK32	24871103	Chip, 10k ohm, 1/8W
RK33	24871103	Chip, 10k ohm, 1/8W
RK34	24871103	Chip, 10k ohm, 1/8W
RK35	24871103	Chip, 10k ohm, 1/8W
RK38	24872103	Chip, 10k ohm, 1/16W
RK39	24872103	Chip, 10k ohm, 1/16W
RK40	24872103	Chip, 10k ohm, 1/16W
RK41	24872103	Chip, 10k ohm, 1/16W
RK43	24871102	Chip, 1k ohm, 1/8W
RK44	24872102	Chip, 1k ohm, 1/16W
RK45	24872102	Chip, 1k ohm, 1/16W
RK46	24872102	Chip, 1k ohm, 1/16W
RK48	24871102	Chip, 1k ohm, 1/8W
RK49	24872102	Chip, 1k ohm, 1/16W
RK50	24871102	Chip, 1k ohm, 1/8W
RK51	24872472	Chip, 4700 ohm, 1/16W
RK52	24872472	Chip, 4700 ohm, 1/16W
RK53	24871102	Chip, 1k ohm, 1/8W
RK54	24871103	Chip, 10k ohm, 1/8W
RK55	24872101	Chip, 100 ohm, 1/16W
RK56	24872101	Chip, 100 ohm, 1/16W
RK60	24872103	Chip, 10k ohm, 1/16W
RK62	24872102	Chip, 1k ohm, 1/16W
RK63	24872222	Chip, 2200 ohm, 1/16W
RK64	24872152	Chip, 1500 ohm, 1/16W
RK65	24872332	Chip, 3300 ohm, 1/16W
RK66	24872472	Chip, 4700 ohm, 1/16W
RK72	24872102	Chip, 1k ohm, 1/16W
RK74	24872102	Chip, 1k ohm, 1/16W
RK76	24872101	Chip, 100 ohm, 1/16W
RK77	24872101	Chip, 100 ohm, 1/16W

Location No.	Part No.	Description
RK79	24872102	Chip, 1k ohm, 1/16W
RK80	24872223	Chip, 22k ohm, 1/16W
RK81	24872102	Chip, 1k ohm, 1/16W
RK82	24872683	Chip, 68k ohm, 1/16W
RK83	24872682	Chip, 6800 ohm, 1/16W
RK84	24872222	Chip, 2200 ohm, 1/16W
RK85	24872272	Chip, 2700 ohm, 1/16W
RK86	24872223	Chip, 22k ohm, 1/16W
RK87	24872682	Chip, 6800 ohm, 1/16W
RK91	24872122	Chip, 1200 ohm, 1/16W
RK92	24872101	Chip, 100 ohm, 1/16W
RK94	24871101	Chip, 100 ohm, 1/8W
RK98	24872101	Chip, 100 ohm, 1/16W
RK99	24872393	Chip, 39k ohm, 1/16W
RK100	24871222	Chip, 2200 ohm, 1/8W
RK101	24872103	Chip, 10k ohm, 1/16W
RK102	24872392	Chip, 3900 ohm, 1/16W
RK103	24872393	Chip, 39k ohm, 1/16W
RK104	24872392	Chip, 3900 ohm, 1/16W
RK105	24872122	Chip, 1200 ohm, 1/16W
RK106	24872103	Chip, 10k ohm, 1/16W
RK107	24872122	Chip, 1200 ohm, 1/16W
RK108	24872152	Chip, 1500 ohm, 1/16W
RK109	24872471	Chip, 470 ohm, 1/16W
RK110	24872471	Chip, 470 ohm, 1/16W
RK111	24872152	Chip, 1500 ohm, 1/16W
RK112	24872152	Chip, 1500 ohm, 1/16W
RK113	24871471	Chip, 470 ohm, 1/8W
RK114	24872471	Chip, 470 ohm, 1/16W
RK115	24872152	Chip, 1500 ohm, 1/16W
RK116	24872152	Chip, 1500 ohm, 1/16W
RK117	24872471	Chip, 470 ohm, 1/16W
RK118	24871152	Chip, 1500 ohm, 1/8W
RK119	24872393	Chip, 39k ohm, 1/16W
RK120	24871222	Chip, 2200 ohm, 1/8W
RK121	24872392	Chip, 3900 ohm, 1/16W
RK122	24872393	Chip, 39k ohm, 1/16W
RK123	24872392	Chip, 3900 ohm, 1/16W
RK124	24872122	Chip, 1200 ohm, 1/16W
RK125	24872103	Chip, 10k ohm, 1/16W
RK126	24872122	Chip, 1200 ohm, 1/16W
RK127	24872152	Chip, 1500 ohm, 1/16W
RK128	24871122	Chip, 1200 ohm, 1/8W
RK129	24871473	Chip, 47k ohm, 1/8W
RK130	24872102	Chip, 1k ohm, 1/16W
RK131	24872473	Chip, 47k ohm, 1/16W
RK132	24872393	Chip, 39k ohm, 1/16W
RK133	24872562	Chip, 5600 ohm, 1/16W
RK134	24872471	Chip, 470 ohm, 1/16W
RK135	24872152	Chip, 1500 ohm, 1/16W
RK136	24872562	Chip, 5600 ohm, 1/16W
RK137	24872471	Chip, 470 ohm, 1/16W
RK138	24872392	Chip, 3900 ohm, 1/16W
RK139	24872103	Chip, 10k ohm, 1/16W
RK143	24872102	Chip, 1k ohm, 1/16W
RK144	24872473	Chip, 47k ohm, 1/16W
RK150	24872472	Chip, 4700 ohm, 1/16W
RK151	24872473	Chip, 47k ohm, 1/16W
RK156	24872101	Chip, 100 ohm, 1/16W
RK157	24872102	Chip, 1k ohm, 1/16W
RK158	24872102	Chip, 1k ohm, 1/16W
RK159	24872103	Chip, 10k ohm, 1/16W
RK160	24871103	Chip, 10k ohm, 1/8W
RK161	24871103	Chip, 10k ohm, 1/8W

Location No.	Part No.	Description
RK162	24871102	Chip, 1k ohm, 1/8W
RK163	24872101	Chip, 100 ohm, 1/16W
RK164	24872101	Chip, 100 ohm, 1/16W
RK165	24871103	Chip, 10k ohm, 1/8W
RK179	24871223	Chip, 22k ohm, 1/8W
RK181	24872224	Chip, 220k ohm, 1/16W
RK182	24871102	Chip, 1k ohm, 1/8W
RK190	24366223	CF, 22k ohm
RK191	24366822	CF, 8200 ohm
RK192	24366332	CF, 3300 ohm
RK193	24366103	CF, 10k ohm
RK194	24366103	CF, 10k ohm
RK195	24366222	CF, 2200 ohm
RQ01	24366102	CF, 1k ohm (32MW7DG)
RQ03	24366102	CF, 1k ohm (32MW7DG)
RQ04	24366511	CF, 510 ohm (32MW7DG)
RQ05	24366471	CF, 470 ohm (32MW7DG)
RQ06	24366471	CF, 470 ohm (32MW7DG)
RQ07	24366103	CF, 10k ohm
RQ08	24366102	CF, 1k ohm
RQ09	24366102	CF, 1k ohm
RQ10	24366102	CF, 1k ohm
RQ11	24366561	CF, 560 ohm
RQ12	24366561	CF, 560 ohm
RQ13	24366203	CF, 20k ohm (32MW7DG)
RQ14	24366273	CF, 27k ohm (32MW7DG)
RQ20	24366563	CF, 56k ohm (32MW7DG)
RQ60	24366101	CF, 100 ohm (32MW7DB)
RQ61	24366103	CF, 10k ohm (32MW7DB)
RQ62	24366103	CF, 10k ohm (32MW7DB)
RQ63	24366103	CF, 10k ohm (32MW7DB)
RQ64	24366104	CF, 100k ohm (32MW7DB)
RR12	24366151	CF, 150 ohm
RR13	24366151	CF, 150 ohm
RR14	24366151	CF, 150 ohm
RR21	24366102	CF, 1k ohm
RR22	24366102	CF, 1k ohm
RR23	24366562	CF, 5600 ohm
RR24	24366332	CF, 3300 ohm
RR25	24366362	CF, 3600 ohm
RR27	24366202	CF, 2k ohm
RR29	24366101	CF, 100 ohm
RR30	24366101	CF, 100 ohm
RR33	24366101	CF, 100 ohm
RR34	24366102	CF, 1k ohm
RR35	24366102	CF, 1k ohm
RR36	24366103	CF, 10k ohm
RR38	24366222	CF, 2200 ohm
RR39	24366222	CF, 2200 ohm
RR40	24366471	CF, 470 ohm
RR41	24366473	CF, 47k ohm
RR42	24366101	CF, 100 ohm
RR43	24366101	CF, 100 ohm
RR44	24366101	CF, 100 ohm
RR50	24366101	CF, 100 ohm
RR51	24366101	CF, 100 ohm
RR52	24366101	CF, 100 ohm
RR60	24366472	CF, 4700 ohm
RR61	24366392	CF, 3900 ohm
RR62	24366242	CF, 2400 ohm
RR63	24366102	CF, 1k ohm
RR64	24366132	CF, 1300 ohm
RR65	24366102	CF, 1k ohm
RR66	24366101	CF, 100 ohm

Location No.	Part No.	Description
RR67	24366101	CF, 100 ohm
RS01	24366681	CF, 680 ohm
RS02	24366681	CF, 680 ohm
RS03	24366101	CF, 100 ohm
RS04	24366101	CF, 100 ohm
RS05	24366472	CF, 4700 ohm
RS06	24366472	CF, 4700 ohm
RS07	24366472	CF, 4700 ohm
RS08	24366472	CF, 4700 ohm
RS09	24366472	CF, 4700 ohm
RS10	24366472	CF, 4700 ohm
RS11	24366101	CF, 100 ohm
RS13	24366101	CF, 100 ohm
RS14	24366101	CF, 100 ohm
RS15	24366104	CF, 100k ohm
RS16	24366104	CF, 100k ohm
RS17	24366223	CF, 22k ohm
RS18	24366223	CF, 22k ohm
RS19	24366102	CF, 1k ohm
RS20	24366102	CF, 1k ohm
RS21	24366222	CF, 2200 ohm
RS22	24366222	CF, 2200 ohm
RS23	24366101	CF, 100 ohm
RS24	24366101	CF, 100 ohm
RS27	24366104	CF, 100k ohm
RS28	24366104	CF, 100k ohm
RS29	24366223	CF, 22k ohm
RS30	24366223	CF, 22k ohm
RS31	24366103	CF, 10k ohm
RS32	24366104	CF, 100k ohm
RS35	24366223	CF, 22k ohm
RS36	24366223	CF, 22k ohm
RS37	24366104	CF, 100k ohm
RS38	24366104	CF, 100k ohm
RS43	24366681	CF, 680 ohm
RS44	24366681	CF, 680 ohm
RS45	24366681	CF, 680 ohm
RS46	24366681	CF, 680 ohm
RV01	24366101	CF, 100 ohm
RV02	24366101	CF, 100 ohm
RV03	24366101	CF, 100 ohm
RV04	24366101	CF, 100 ohm
RV05	24366101	CF, 100 ohm
RV06	24366101	CF, 100 ohm
RV07	24366162	CF, 1600 ohm
RV08	24366162	CF, 1600 ohm
RV09	24366101	CF, 100 ohm
RV10	24366101	CF, 100 ohm
RV12	24366681	CF, 680 ohm
RV13	24366681	CF, 680 ohm
RV16	24366471	CF, 470 ohm
RV18	24366123	CF, 12k ohm
RV19	24366101	CF, 100 ohm
RV22	24366102	CF, 1k ohm
RV23	24552101	OMF, 100 ohm, 1/2W
RV25	24366101	CF, 100 ohm
RV26	24366181	CF, 180 ohm
RV27	24366750	CF, 75 ohm
RV28	24366683	CF, 68k ohm
RV29	24366273	CF, 27k ohm
RV30	24366750	CF, 75 ohm
RV32	24366750	CF, 75 ohm
RV33	24366123	CF, 12k ohm
RV34	24366123	CF, 12k ohm

Location No.	Part No.	Description
RV35	24366103	CF, 10k ohm
RV36	24366101	CF, 100 ohm
RV38	24366750	CF, 75 ohm
RV40	24366471	CF, 470 ohm
RV60	24366471	CF, 470 ohm
RV61	24552101	OMF, 100 ohm, 1/2W
RV62	24366101	CF, 100 ohm
RV63	24552151	OMF, 150 ohm, 1/2W
RV64	24366750	CF, 75 ohm
RV65	24552101	OMF, 100 ohm, 1/2W
RV66	24366101	CF, 100 ohm
RV67	24552151	OMF, 150 ohm, 1/2W
RV68	24366750	CF, 75 ohm
RV70	24366101	CF, 100 ohm
RV71	24366472	CF, 4700 ohm
RV78	24366221	CF, 220 ohm
RV79	24366680	CF, 68 ohm
RV80	24366102	CF, 1k ohm
RV81	24366472	CF, 4700 ohm
RV81	24366750	CF, 75 ohm
RV82	24366153	CF, 15k ohm
RV83	24366103	CF, 10k ohm
RV85	24366750	CF, 75 ohm
RV86	24366750	CF, 75 ohm
RV87	24366750	CF, 75 ohm
RV89	24366750	CF, 75 ohm
RV90	24366681	CF, 680 ohm
RV91	24366681	CF, 680 ohm
RV92	24366100	CF, 10 ohm
RV93	24366104	CF, 100k ohm
RV94	24366103	CF, 10k ohm
RV95	24366222	CF, 2200 ohm
RV96	24366391	CF, 390 ohm
RV97	24366101	CF, 100 ohm
RV98	24366750	CF, 75 ohm
RX103	24871471	Chip, 470 ohm, 1/8W
RX104	24011105	Chip, 1M ohm, 1/20W
RX105	24011271	Chip, 270 ohm, 1/20W
RX106	24011102	Chip, 1k ohm, 1/20W
RX108	24011331	Chip, 330 ohm, 1/20W
RX109	24871221	Chip, 220 ohm, 1/8W
RX110	24011680	Chip, 68 ohm, 1/20W
RX111	24011561	Chip, 560 ohm, 1/20W
RX112	24871221	Chip, 220 ohm, 1/8W
RX120	24011470	Chip, 47 ohm, 1/20W
RX121	24011152	Chip, 1500 ohm, 1/20W
RX123	24011331	Chip, 330 ohm, 1/20W
RX125	24011102	Chip, 1k ohm, 1/20W
RX126	24871471	Chip, 470 ohm, 1/8W
RX127	24011471	Chip, 470 ohm, 1/20W
RX128	24871471	Chip, 470 ohm, 1/8W
RX136	24011470	Chip, 47 ohm, 1/20W
RX137	24011152	Chip, 1500 ohm, 1/20W
RX140	24011102	Chip, 1k ohm, 1/20W
RX141	24871471	Chip, 470 ohm, 1/8W
RX142	24011120	Chip, 12 ohm, 1/20W
RX143	24011561	Chip, 560 ohm, 1/20W
RX144	24871221	Chip, 220 ohm, 1/8W
RX145	24011331	Chip, 330 ohm, 1/20W
RX146	24011470	Chip, 47 ohm, 1/20W
RX201	24011103	Chip, 10k ohm, 1/20W
RX202	24011681	Chip, 680 ohm, 1/20W
RX203	24011151	Chip, 150 ohm, 1/20W
RX204	24011472	Chip, 4700 ohm, 1/20W

Location No.	Part No.	Description
RX205	24011332	Chip, 3300 ohm, 1/20W
RX206	24011331	Chip, 330 ohm, 1/20W
RX207	24011102	Chip, 1k ohm, 1/20W
RX208	24011332	Chip, 3300 ohm, 1/20W
RX209	24011681	Chip, 680 ohm, 1/20W
RX223	24011220	Chip, 22 ohm, 1/20W
RX225	24011220	Chip, 22 ohm, 1/20W
RX230	24011220	Chip, 22 ohm, 1/20W
RX231	24011220	Chip, 22 ohm, 1/20W
RX301	24011151	Chip, 150 ohm, 1/20W
RX301	24011151	Chip, 150 ohm, 1/20W
RX302	24011102	Chip, 1k ohm, 1/20W
RX302	24011102	Chip, 1k ohm, 1/20W
RX303	24011220	Chip, 22 ohm, 1/20W
RX303	24011220	Chip, 22 ohm, 1/20W
RX304	24871331	Chip, 330 ohm, 1/8W
RX304	24871331	Chip, 330 ohm, 1/8W
RX305	24011221	Chip, 220 ohm, 1/20W
RX305	24011221	Chip, 220 ohm, 1/20W
RX306	24011821	Chip, 820 ohm, 1/20W
RX307	24011220	Chip, 22 ohm, 1/20W
RX308	24871331	Chip, 330 ohm, 1/8W
RX309	24011221	Chip, 220 ohm, 1/20W
RX310	24011821	Chip, 820 ohm, 1/20W
RX311	24011220	Chip, 22 ohm, 1/20W
RX312	24871331	Chip, 330 ohm, 1/8W
RX313	24871331	Chip, 330 ohm, 1/8W
RX314	24871331	Chip, 330 ohm, 1/8W
RX315	24871471	Chip, 470 ohm, 1/8W
RX400	24011102	Chip, 1k ohm, 1/20W
RX401	24011471	Chip, 470 ohm, 1/20W
RX402	24011471	Chip, 470 ohm, 1/20W
RX403	24011471	Chip, 470 ohm, 1/20W
RX404	24011102	Chip, 1k ohm, 1/20W
RX405	24011221	Chip, 220 ohm, 1/20W
RX406	24011221	Chip, 220 ohm, 1/20W
RX407	24011221	Chip, 220 ohm, 1/20W
RX408	24011221	Chip, 220 ohm, 1/20W
RX409	24011221	Chip, 220 ohm, 1/20W
RZ01	24366471	CF, 470 ohm
RZ02	24366152	CF, 1500 ohm
RZ04	24366332	CF, 3300 ohm
RZ05	24366332	CF, 3300 ohm
RZ06	24366821	CF, 820 ohm
RZ07	24366222	CF, 2200 ohm
RZ08	24366302	CF, 3k ohm
RZ12	24366471	CF, 470 ohm
RZ18	24366821	CF, 820 ohm
RZ19	24366471	CF, 470 ohm
RZ20	24366122	CF, 1200 ohm
RZ21	24366680	CF, 68 ohm
RZ22	24366101	CF, 100 ohm
RZ23	24366821	CF, 820 ohm
RZ24	24366821	CF, 820 ohm
RZ25	24366101	CF, 100 ohm
RZ26	24366101	CF, 100 ohm
RZ28	24366821	CF, 820 ohm
RZ29	24366331	CF, 330 ohm
RZ30	24366331	CF, 330 ohm
RZ31	24366102	CF, 1k ohm

COILS & TRANSFORMERS

Location No.	Part No.	Description
L101	23221803	Coil, Choke, TLN3040D
L201	23238710	Coil, Peaking, TRF4220AJ

Location No.	Part No.	Description
L202	23238708	Coil, Peaking, TRF4330AJ
L301	23103859	Coil (Ferrite Bead), TEM2011
L400	23289101	Coil, Peaking, TRF4101AF
L400	23221886	Coil, Choke, TLN3073
L410	23103859	Coil (Ferrite Bead), TEM2011
L441	23233966	Coil, Linearity, TLN2158AY
L442	23248164	Coil, Choke, TLN3437AD
L443	23248199	Coil, Choke, TLN3467AD
L444	23248186	Coil, Choke, TLN3346AD
L449	23103859	Coil (Ferrite Bead), TEM2011
L461	23248111	Coil, Choke, TLN3349D
L470	23103859	Coil (Ferrite Bead), TEM2011
L491	23211923	Coil, Choke, AT4043/100
L501	23289479	Coil, Peaking, TRF44R7AF
L502	23103824	Coil, TEM2028K
L503	23289470	Coil, Peaking, TRF4470AF
L504	23103824	Coil, TEM2028K
L507	23103824	Coil, TEM2028K
L508	23103824	Coil, TEM2028K
L509	23103824	Coil, TEM2028K
L510	23238718	Coil, Peaking, TRF4479AJ
L643	23103859	Coil (Ferrite Bead), TEM2011
L645	23103859	Coil (Ferrite Bead), TEM2011
L671	23103859	Coil (Ferrite Bead), TEM2011
L672	23103859	Coil (Ferrite Bead), TEM2011
L676	23238562	Coil, Peaking, TRF4109AJ
L677	23238720	Coil, Peaking, TRF4339AJ
L682	23238562	Coil, Peaking, TRF4109AJ
L683	23238562	Coil, Peaking, TRF4109AJ
L684	23238562	Coil, Peaking, TRF4109AJ
L685	23238562	Coil, Peaking, TRF4109AJ
L701	23289100	Coil, Peaking, TRF4100AF
L702	23261974	Coil, Choke, HC5-035
L704	23103859	Coil (Ferrite Bead), TEM2011
L705	23103859	Coil (Ferrite Bead), TEM2011
L801	23217382	Coil, Choke, TPW2011AZ
L811	23103859	Coil (Ferrite Bead), TEM2011
L814	23221747	Coil, Choke, TRF9253D
L815	23103937	Coil (Ferrite Bead), TEM2004
L836	23280016	Coil, Peaking, TRF4100AZ
L871	23103859	Coil (Ferrite Bead), TEM2011
L875	23280016	Coil, Peaking, TRF4100AZ
L876	23289100	Coil, Peaking, TRF4100AF
L883	23221747	Coil, Choke, TRF9253D
L885	23248073	Coil, Choke, TLN3299D
L886	23103859	Coil (Ferrite Bead), TEM2011
L889	23222694	Coil, Width, TLN2026
L891	23103859	Coil (Ferrite Bead), TEM2011
L892	23103859	Coil (Ferrite Bead), TEM2011
L893	23280016	Coil, Peaking, TRF4100AZ
L894	23289100	Coil, Peaking, TRF4100AF
L896	23103859	Coil (Ferrite Bead), TEM2011
L897	23222694	Coil, Width, TLN2026
⚠L901	23200299	Coil, Degaussing, TSB-2370AR
L902	23289101	Coil, Peaking, TRF4101AF
L903	23289101	Coil, Peaking, TRF4101AF
L904	23289101	Coil, Peaking, TRF4101AF
L905	23289220	Coil, Peaking, TRF4220AF
L906	23289220	Coil, Peaking, TRF4220AF
L907	23289220	Coil, Peaking, TRF4220AF
L908	23289100	Coil, Peaking, TRF4100AF
L910	23289109	Coil, Peaking, TRF41R0AF
L912	23289150	Coil, Peaking, TRF4150AF
L913	23289150	Coil, Peaking, TRF4150AF
L914	23289150	Coil, Peaking, TRF4150AF
L4370	23289101	Coil, Peaking, TRF4101AF
L4430	23289680	Coil, Peaking, TRF4680AF
LA01	23289100	Coil, Peaking, TRF4100AF
LC05	23238562	Coil, Peaking, TRF4109AJ
LC06	23103859	Coil (Ferrite Bead), TEM2011
LC07	23238562	Coil, Peaking, TRF4109AJ
LC08	23238562	Coil, Peaking, TRF4109AJ
LD81	23289479	Coil, Peaking, TRF44R7AF
LD82	23103859	Coil (Ferrite Bead), TEM2011
LD83	23103859	Coil (Ferrite Bead), TEM2011
LD89	23289470	Coil, Peaking, TRF4470AF
LD101	23238714	Coil, Peaking, TRF4100AJ
LF01	23238506	Coil, Peaking, TRF4229AJ
LF02	23238506	Coil, Peaking, TRF4229AJ
LF03	23238506	Coil, Peaking, TRF4229AJ
LF04	23238506	Coil, Peaking, TRF4229AJ
LF06	23238562	Coil, Peaking, TRF4109AJ
LF07	23238562	Coil, Peaking, TRF4109AJ
LF08	23238506	Coil, Peaking, TRF4229AJ
LF09	23238506	Coil, Peaking, TRF4229AJ
LF10	23238562	Coil, Peaking, TRF4109AJ
LF11	23289109	Coil, Peaking, TRF41R0AF
LF13	23289100	Coil, Peaking, TRF4100AF
LF17	23289100	Coil, Peaking, TRF4100AF
LK01	23289100	Coil, Peaking, TRF4100AF
LK02	23289101	Coil, Peaking, TRF4101AF
LK03	23237975	Coil, Peaking, TRF4101AC
LK04	23289100	Coil, Peaking, TRF4100AF
LK05	23289100	Coil, Peaking, TRF4100AF
LQ01	23238709	Coil, Peaking, TRF4270AJ (32MW7DG)
LQ02	23238718	Coil, Peaking, TRF4479AJ
LQ03	23238718	Coil, Peaking, TRF4479AJ
LQ04	23238718	Coil, Peaking, TRF4479AJ
LR03	23237969	Coil, Peaking, TRF4331AC
LR22	23103824	Coil, TEM2028K
LV06	23238562	Coil, Peaking, TRF4109AJ
LV07	23238562	Coil, Peaking, TRF4109AJ
LV08	23289330	Coil, Peaking, TRF4330AF
LV09	23289100	Coil, Peaking, TRF4100AF
LV10	23103824	Coil, TEM2028K
LV11	23103824	Coil, TEM2028K
LV12	23103824	Coil, TEM2028K
LV42	23289100	Coil, Peaking, TRF4100AF
LV43	23289100	Coil, Peaking, TRF4100AF
LV49	23103824	Coil, TEM2028K
LX101	23103822	Chip (Ferrite Bead), TEM2117T
LX102	23103822	Chip (Ferrite Bead), TEM2117T
LX103	23103822	Chip (Ferrite Bead), TEM2117T
LX105	24000824	Chip, Jumper, 2125 type
LX106	23103822	Chip (Ferrite Bead), TEM2117T
LX107	23289270	Coil, Peaking, TRF4270AF
LX108	23103822	Chip (Ferrite Bead), TEM2117T
LX109	23103822	Chip (Ferrite Bead), TEM2117T
LX110	23103822	Chip (Ferrite Bead), TEM2117T
LX111	23289270	Coil, Peaking, TRF4270AF
LX112	24000824	Chip, Jumper, 2125 type
LX113	23103822	Chip (Ferrite Bead), TEM2117T
LX114	23245828	Chip, Inductor, TRF46R8CB
LX201	23103822	Chip (Ferrite Bead), TEM2117T
LX202	23103822	Chip (Ferrite Bead), TEM2117T
LX203	23103822	Chip (Ferrite Bead), TEM2117T
LX209	23103822	Chip (Ferrite Bead), TEM2117T

Location No.	Part No.	Description
LX210	23103822	Chip (Ferrite Bead), TEM2117T
LX212	23103822	Chip (Ferrite Bead), TEM2117T
LX214	23103822	Chip (Ferrite Bead), TEM2117T
LX215	23103822	Chip (Ferrite Bead), TEM2117T
LX216	23103822	Chip (Ferrite Bead), TEM2117T
LX217	23103822	Chip (Ferrite Bead), TEM2117T
LX218	24000824	Chip, Jumper, 2125 type
LX301	23103822	Chip (Ferrite Bead), TEM2117T
LX302	23103822	Chip (Ferrite Bead), TEM2117T
LX303	24000824	Chip, Jumper, 2125 type
LX306	23103822	Chip (Ferrite Bead), TEM2117T
LX307	23289229	Coil, Peaking, TRF42R2AF
LX308	23289100	Coil, Peaking, TRF4100AF
LX309	23289100	Coil, Peaking, TRF4100AF
LX400	23289109	Coil, Peaking, TRF41R0AF
LX401	23289109	Coil, Peaking, TRF41R0AF
LX402	23289109	Coil, Peaking, TRF41R0AF
LX403	23289109	Coil, Peaking, TRF41R0AF
LX404	23289109	Coil, Peaking, TRF41R0AF
LX405	23289109	Coil, Peaking, TRF41R0AF
LX406	23289109	Coil, Peaking, TRF41R0AF
LX407	23289109	Coil, Peaking, TRF41R0AF
LX408	23289109	Coil, Peaking, TRF41R0AF
LX409	23289109	Coil, Peaking, TRF41R0AF
LZ01	23238712	Coil, Peaking, TRF4150AJ
LZ02	23238716	Coil, Peaking, TRF4689AJ
LZ03	23238716	Coil, Peaking, TRF4689AJ
LZ04	23238709	Coil, Peaking, TRF4270AJ
LZ05	23238716	Coil, Peaking, TRF4689AJ
LZ06	23238709	Coil, Peaking, TRF4270AJ
LZ07	23238709	Coil, Peaking, TRF4270AJ
LZ08	23238707	Coil, Peaking, TRF4390AJ
LZ09	70131060	Filter, ZBF253D-00
LZ10	70131060	Filter, ZBF253D-00
LZ11	23289270	Coil, Peaking, TRF4270AF
T400	23224364	Transformer, Focus, TLN2168AH
T401	23224371	Transformer, Horiz. Drive, TLN1080AH
⚠T461	23236517	Transformer, Flyback, TFB3079AR
T801	23211670	Line Filter, TRF3164G
T802	23211670	Line Filter, TRF3164G
T804	23211670	Line Filter, TRF3164G
⚠T863	23217359	Transformer, Converter, TPW3374AG

SEMICONDUCTORS

Location No.	Part No.	Description
Q200	A6330059	Transistor, 2SC2482(C)
Q201	A6534053	Transistor, 2SA1015-Y(TE
Q203	A6734590	Transistor, 2SC752(G)TM-Y
Q204	A6317440	Transistor, 2SC1815-Y
Q205	A6317440	Transistor, 2SC1815-Y
Q207	A6342206	Transistor, 2SC2878-A(TE
Q301	23905610	IC, LA7846N
Q303	A6534053	Transistor, 2SA1015-Y(TE
Q304	A6317440	Transistor, 2SC1815-Y
Q331	A6534053	Transistor, 2SA1015-Y(TE
Q332	A6317440	Transistor, 2SC1815-Y
Q334	A6319576	Transistor, 2SC2073 FA-4
Q360	A6002040	Transistor, RN1204
Q361	A6002040	Transistor, RN1204
Q362	A6002050	Transistor, RN1205
Q370	A6534053	Transistor, 2SA1015-Y(TE

Location No.	Part No.	Description
Q402	A6325419	Transistor, 2SC2235-O(FA
Q404	23314939	Transistor, 2SC5243001TH
Q418	23314141	Transistor, 2SC3852
Q420	23314141	Transistor, 2SC3852
Q420	23316816	IC, LA7860
Q421	A6317440	Transistor, 2SC1815-Y
Q430	23314141	Transistor, 2SC3852
Q460	23314850	Transistor, 2SA1788-E
Q462	A6317440	Transistor, 2SC1815-Y
Q470	A6317440	Transistor, 2SC1815-Y
Q487	A6317440	Transistor, 2SC1815-Y
Q488	A6002040	Transistor, RN1204
Q489	A6012020	Transistor, RN2202
Q501	B0385990	IC, TA1259N
Q502	A6317440	Transistor, 2SC1815-Y
Q503	A6317440	Transistor, 2SC1815-Y
Q510	A6317440	Transistor, 2SC1815-Y
Q518	A6317440	Transistor, 2SC1815-Y
Q519	A6534053	Transistor, 2SA1015-Y(TE
Q611	A6534053	Transistor, 2SA1015-Y(TE
Q612	A6534053	Transistor, 2SA1015-Y(TE
Q640	B0377341	IC, TA8256H(V31
Q641	A6342206	Transistor, 2SC2878-A(TE
Q642	A6342206	Transistor, 2SC2878-A(TE
Q643	A6342206	Transistor, 2SC2878-A(TE
Q670	B0377341	IC, TA8256H(V31
Q671	A6342206	Transistor, 2SC2878-A(TE
Q672	A6342206	Transistor, 2SC2878-A(TE
Q673	A6342206	Transistor, 2SC2878-A(TE
Q688	A6002040	Transistor, RN1204
Q705	A6317440	Transistor, 2SC1815-Y
Q706	A6317440	Transistor, 2SC1815-Y
Q707	A6734590	Transistor, 2SC752(G)TM-Y
Q709	A6317440	Transistor, 2SC1815-Y
Q710	A6534053	Transistor, 2SA1015-Y(TE
Q711	23314911	Transistor, 2SB1569A
Q712	23314914	Transistor, 2SD2400A
Q719	A6319311	Transistor, 2SC1959-Y(TE
Q801	23905084	IC, STR-S6709
Q802	23314141	Transistor, 2SC3852
⚠Q826	A8643108	Photo Coupler, TLP621(GR-LF
Q830	23314141	Transistor, 2SC3852
Q831	23314141	Transistor, 2SC3852
Q832	23905977	IC, PQ09RD11
Q840	23318299	IC, L78MR05
Q901	A6368700	Transistor, 2SC4544
Q902	A6317440	Transistor, 2SC1815-Y
Q903	A6368700	Transistor, 2SC4544
Q904	A6317440	Transistor, 2SC1815-Y
Q905	A6368700	Transistor, 2SC4544
Q906	A6317440	Transistor, 2SC1815-Y
Q907	A6509154	Transistor, 2SA562TM-Y(T)
Q908	A6321265	Transistor, 2SC2120-Y(TE)
Q910	A6317440	Transistor, 2SC1815-Y
Q911	A6317440	Transistor, 2SC1815-Y
Q912	A6534053	Transistor, 2SA1015-Y(TE
Q913	A6534053	Transistor, 2SA1015-Y(TE
Q914	A6317440	Transistor, 2SC1815-Y
Q4321	A6002040	Transistor, RN1204
Q4370	B0385853	IC, TA1241AN
Q4371	A6317440	Transistor, 2SC1815-Y
Q4421	A6002040	Transistor, RN1204
Q4423	A6325419	Transistor, 2SC2235-O(FA
Q4490	A8641063	Photo Coupler, TLP521-1

Location No.	Part No.	Description
Q4491	23314917	Transistor, 2SK2003-01MR
Q4493	A6317440	Transistor, 2SC1815-Y
QA01	23906035	IC, TMP87CS38N-3478
QA02	23905320	IC, NM24C16EN
QA04	A6002040	Transistor, RN1204
QA05	A6734590	Transistor, 2SC752(G)TM-Y
QB01	A6317440	Transistor, 2SC1815-Y
QB30	A6317440	Transistor, 2SC1815-Y
QB81	A6342206	Transistor, 2SC2878-A(TE
QB82	A6342206	Transistor, 2SC2878-A(TE
QB83	A6534053	Transistor, 2SA1015-Y(TE
QB92	A6317440	Transistor, 2SC1815-Y
QB93	A6534053	Transistor, 2SA1015-Y(TE
QB94	A6534053	Transistor, 2SA1015-Y(TE
QB95	A6534053	Transistor, 2SA1015-Y(TE
QB96	A6534053	Transistor, 2SA1015-Y(TE
QD01	23906068	IC, ZR38600POC
QD02	23906069	IC, AK4309AVM-E2
QD04	A6030620	IC, TC7S04F
QD05	A6030620	IC, TC7S04F
QD06	23906069	IC, AK4309AVM-E2
QD07	23906069	IC, AK4309AVM-E2
QD10	70119743	IC, PST523D
QD30	B0385647	IC, TA1217AN
QD80	23314141	Transistor, 2SC3852
QD89	A6335470	Transistor, 2SC2712-Y
QD103	23314314	Transistor, XN4501
QF01	23905948	IC, SDA5273SC134
QF03	A6317440	Transistor, 2SC1815-Y
QF04	A6734590	Transistor, 2SC752(G)TM-Y
QF10	B0460424	IC, TC514400AZ-6
QK01	B0470662	IC, TC4066BP
QK02	23904807	IC, MC14577CP
QK03	B0485576	IC, TC74HC08AP
QK04	23904823	IC, LC89066D
QK05	B0485615	IC, TC74HC04AP
QK07	70119743	IC, PST523D
QK08	23314527	Transistor, XN4401
QK10	A6335470	Transistor, 2SC2712-Y
QK11	B0486068	IC, TC74HC74AP
QK12	23314527	Transistor, XN4401
QK15	23314314	Transistor, XN4501
QK16	23314314	Transistor, XN4501
QK17	23314314	Transistor, XN4501
QK18	23314527	Transistor, XN4401
QK19	23314527	Transistor, XN4401
QK20	A6335470	Transistor, 2SC2712-Y
QK21	A6541130	Transistor, 2SA1162-Y
QK22	A6541130	Transistor, 2SA1162-Y
QK23	A6335470	Transistor, 2SC2712-Y
QK24	A6361770	Transistor, 2SC3437-Y
QK25	A6361770	Transistor, 2SC3437-Y
QK26	A6335470	Transistor, 2SC2712-Y
QK27	A6335470	Transistor, 2SC2712-Y
QK29	A6541130	Transistor, 2SA1162-Y
QK32	A6335470	Transistor, 2SC2712-Y
QK33	A6335470	Transistor, 2SC2712-Y
QK34	A6335470	Transistor, 2SC2712-Y
QK37	A6541130	Transistor, 2SA1162-Y
QK39	A6335470	Transistor, 2SC2712-Y
QK40	A6335470	Transistor, 2SC2712-Y
QK41	A6335470	Transistor, 2SC2712-Y
QK43	A6335470	Transistor, 2SC2712-Y
QK44	A6335470	Transistor, 2SC2712-Y
QK45	A6541130	Transistor, 2SA1162-Y
QK46	A6335470	Transistor, 2SC2712-Y
QK47	A6335470	Transistor, 2SC2712-Y
QK48	A6335470	Transistor, 2SC2712-Y
QK49	23314314	Transistor, XN4501
QK50	23314527	Transistor, XN4401
QK51	B0470662	IC, TC4066BP
QK52	23314314	Transistor, XN4501
QK61	A6335470	Transistor, 2SC2712-Y
QK64	A6541130	Transistor, 2SA1162-Y
QK65	A6335470	Transistor, 2SC2712-Y
QK190	A6317440	Transistor, 2SC1815-Y
QK191	A6317440	Transistor, 2SC1815-Y
QQ01	23904991	IC, TA1229N (32MW7DG)
QQ02	B0383881	IC, TA8772AN
QQ03	A6317440	Transistor, 2SC1815-Y
QQ04	A6317440	Transistor, 2SC1815-Y
QQ05	A6317440	Transistor, 2SC1815-Y (32MW7DB)
QQ06	A6002030	Transistor, RN120((32MW7DB)
QQ07	A6317440	Transistor, 2SC1815-Y (32MW7DB)
QQ08	A6317440	Transistor, 2SC1815-Y (32MW7DB)
QR21	23904807	IC, MC14577CP
QR22	23905603	IC, TDA8443B
QR23	A6534053	Transistor, 2SA1015-Y(TE
QR24	A6534053	Transistor, 2SA1015-Y(TE
QR25	23904807	IC, MC14577CP
QS01	A6342206	Transistor, 2SC2878-A(TE
QS02	A6342206	Transistor, 2SC2878-A(TE
QS03	A6342206	Transistor, 2SC2878-A(TE
QS04	A6342206	Transistor, 2SC2878-A(TE
QS05	A6342206	Transistor, 2SC2878-A(TE
QS06	A6342206	Transistor, 2SC2878-A(TE
QS07	A6010040	Transistor, RN2004
QS08	A6342206	Transistor, 2SC2878-A(TE
QS09	A6342206	Transistor, 2SC2878-A(TE
QV01	B0385650	IC, TA1218N
QV02	A6317440	Transistor, 2SC1815-Y
QV06	A6534053	Transistor, 2SA1015-Y(TE
QV07	A6342206	Transistor, 2SC2878-A(TE
QV08	A6317440	Transistor, 2SC1815-Y
QV09	A6317440	Transistor, 2SC1815-Y
QV10	A6317440	Transistor, 2SC1815-Y
QV11	A6534053	Transistor, 2SA1015-Y(TE
QV12	A6317440	Transistor, 2SC1815-Y
QV14	A6317440	Transistor, 2SC1815-Y
QV80	A6534053	Transistor, 2SA1015-Y(TE
QX10	70128490	IC, MM1031XMR
QX20	B0370000	IC, TA78L05F
QX21	A6030640	IC, TC7S32F
QX21	B0488966	IC, TC74AC74F
QX30	23319052	IC, MB40978PFQ
QX101	23314204	Transistor, 2SC2412K,Q
QX103	23314345	Transistor, IMZ1
QX104	23314204	Transistor, 2SC2412K,Q
QX105	A6030670	IC, TC7S66F
QX106	23905190	IC, TLC5510INS
QX108	23314204	Transistor, 2SC2412K,Q
QX109	23314344	Transistor, IMX1
QX110	A6030670	IC, TC7S66F
QX111	23314204	Transistor, 2SC2412K,Q

Location No.	Part No.	Description
QX112	A6030670	IC, TC7S66F
QX114	23905190	IC, TLC5510INS
QX116	23314204	Transistor, 2SC2412K,Q
QX117	23314344	Transistor, IMX1
QX118	A6030670	IC, TC7S66F
QX119	23314204	Transistor, 2SC2412K,Q
QX120	A6030670	IC, TC7S66F
QX201	A6361770	Transistor, 2SC3437-Y
QX202	A6030871	IC, TC7W04F(BRA)
QX203	23905013	IC, TLC2932IPW
QX205	23905013	IC, TLC2932IPW
QX211	B0508717	IC, TC190G04AF-0
QX212	23904272	IC, M518221-30ZS
QX213	23904272	IC, M518221-30ZS
QX302	23314204	Transistor, 2SC2412K,Q
QX303	23314204	Transistor, 2SC2412K,Q
QX304	23314204	Transistor, 2SC2412K,Q
QX305	23314204	Transistor, 2SC2412K,Q
QX306	23314204	Transistor, 2SC2412K,Q
QX307	23314204	Transistor, 2SC2412K,Q
QZ01	B0410688	IC, TC9090AN
QZ02	A6317440	Transistor, 2SC1815-Y
QZ03	A6317440	Transistor, 2SC1815-Y
QZ04	A6317440	Transistor, 2SC1815-Y
QZ06	A6317440	Transistor, 2SC1815-Y
D101	23316411	Diode, 1SS184
D201	23115599	Diode, 1N4148
D240	23316554	Diode, 1SS146
D301	23118479	Diode, BYD33J
D302	23118479	Diode, BYD33J
D303	23316794	Diode, SC570A
D312	23115599	Diode, 1N4148
D370	23316658	Diode, Zener, MTZJ3.6A
D371	23115599	Diode, 1N4148
D404	A7680591	Diode, 5VUZ52
D406	23118479	Diode, BYD33J
D419	23316716	Diode, Zener, MTZJ11B
D420	23316716	Diode, Zener, MTZJ11B
D421	23316672	Diode, Zener, MTZJ5.6B
D422	23316743	Diode, Zener, MTZJ24C
D422	23316726	Diode, Zener, MTZJ15C
D431	23316678	Diode, Zener, MTZJ6.8B
D432	23316678	Diode, Zener, MTZJ6.8B
D436	23115599	Diode, 1N4148
D441	23316687	Diode, Zener, MTZJ9.1B
D444	23118479	Diode, BYD33J
D445	23118479	Diode, BYD33J
D460	23118479	Diode, BYD33J
D461	23316803	Diode, FMU-G16S
D463	23115599	Diode, 1N4148
D464	23316718	Diode, Zener, MTZJ12A
D466	23316672	Diode, Zener, MTZJ5.6B
D467	23118479	Diode, BYD33J
D474	23316719	Diode, Zener, MTZJ12B
D486	23316731	Diode, Zener, MTZJ18B
D490	23115599	Diode, 1N4148
D501	23115599	Diode, 1N4148
D502	23115599	Diode, 1N4148
D611	23115599	Diode, 1N4148
D612	23115599	Diode, 1N4148
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D621	23115599	Diode, 1N4148
D622	23115599	Diode, 1N4148
D640	23115599	Diode, 1N4148
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D675	23115599	Diode, 1N4148
D683	23115599	Diode, 1N4148
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D685	23115599	Diode, 1N4148
D704	23115599	Diode, 1N4148
D705	23115599	Diode, 1N4148
D715	23115599	Diode, 1N4148
D721	23115599	Diode, 1N4148
D801	23316795	Diode, D6SB60L, F05
D803	23118479	Diode, BYD33J
D804	23316678	Diode, Zener, MTZJ6.8B
D805	23115599	Diode, 1N4148
D806	23118479	Diode, BYD33J
D808	23118479	Diode, BYD33J
D809	23316672	Diode, Zener, MTZJ5.6B
D810	23115599	Diode, 1N4148
D811	23115599	Diode, 1N4148
D812	23118451	Diode, RU-4A
D815	23316725	Diode, Zener, MTZJ15B
D828	23115599	Diode, 1N4148
D836	23316673	Diode, Zener, MTZJ5,6C
D871	23118479	Diode, BYD33J
D883	23316406	Diode, FML-G16S
D885	23316184	Diode, FML-G12S
D891	23316184	Diode, FML-G12S
D892	23316184	Diode, FML-G12S
D893	23316673	Diode, Zener, MTZJ5,6C
D896	23118479	Diode, BYD33J
D901	23115599	Diode, 1N4148
D903	23115599	Diode, 1N4148
D904	23115599	Diode, 1N4148
D905	23115599	Diode, 1N4148
D906	23115599	Diode, 1N4148
D907	23115599	Diode, 1N4148
D908	23115599	Diode, 1N4148
D909	23115599	Diode, 1N4148
D910	23115599	Diode, 1N4148
D911	23118479	Diode, BYD33J
D912	23115599	Diode, 1N4148
D913	23115599	Diode, 1N4148
D914	23115599	Diode, 1N4148
D4301	23316726	Diode, Zener, MTZJ15C
D4371	23115599	Diode, 1N4148
D4386	23316718	Diode, Zener, MTZJ12A
D4387	23316718	Diode, Zener, MTZJ12A
D4388	23316718	Diode, Zener, MTZJ12A
D4399	23115599	Diode, 1N4148
DB01	23358505	LED, SLR56VC196F
DB02	23358503	LED, SCL003MC3FX
DB30	23115599	Diode, 1N4148
DD81	23316661	Diode, Zener, MTZJJ3.9B
DD91	23316661	Diode, Zener, MTZJJ3.9B

Location No.	Part No.	Description
DF01	23316654	Diode, Zener, MTZJ3.0A
DK01	23316820	Diode, 1SS353
DK02	23118041	Diode, Chip, MA111-(TX)
DK08	23316820	Diode, 1SS353
DK10	23316820	Diode, 1SS353
DK11	23316820	Diode, 1SS353
DK12	23316820	Diode, 1SS353
DK13	23316820	Diode, 1SS353
DQ01	23115599	Diode, 1N4148
DR01	23316719	Diode, Zener, MTZJ12B
DR02	23316719	Diode, Zener, MTZJ12B
DR03	23316719	Diode, Zener, MTZJ12B
DR04	23316719	Diode, Zener, MTZJ12B
DV01	23316687	Diode, Zener, MTZJ9.1B
DV02	23316687	Diode, Zener, MTZJ9.1B
DV03	23316687	Diode, Zener, MTZJ9.1B
DV04	23316687	Diode, Zener, MTZJ9.1B
DV05	23316687	Diode, Zener, MTZJ9.1B
DV06	23316687	Diode, Zener, MTZJ9.1B
DV07	23316687	Diode, Zener, MTZJ9.1B
DV10	23115599	Diode, 1N4148
DV11	23115599	Diode, 1N4148
DV12	23316687	Diode, Zener, MTZJ9.1B
DV80	23115599	Diode, 1N4148
DZ01	23316690	Diode, Zener, MTZJ10B

MISCELLANEOUS

Location No.	Part No.	Description
⚠F470	23144503	Fuse, 1.25A, 250V
F470A	23165433	Holder, Fuse
⚠F801	23144507	Fuse, 3.15A
F801A	23165433	Holder, Fuse
⚠F802	23144506	Fuse, 2.5A, 250V
F802A	23165433	Holder, Fuse
⚠F889	23144458	Fuse, 5.0A
F889A	23165433	Holder, Fuse
G161	23103859	Ferrite Choke, TEM2011
G204	23103859	Ferrite Choke, TEM2011
G224	24366271	CF, 270 ohm
G401	23103859	Ferrite Choke, TEM2011
G402	23103859	Ferrite Choke, TEM2011
G403	23103859	Ferrite Choke, TEM2011
G404	23103859	Ferrite Choke, TEM2011
G405	24366101	CF, 100 ohm
G465	23316672	Diode, Zener, MTZJ5.6B
G510	23289470	Coil, Peaking, TRF4470AF
G516	24366101	CF, 100 ohm
G517	24366101	CF, 100 ohm
G601	23238714	Coil, Peaking, TRF4100AJ
G602	23238714	Coil, Peaking, TRF4100AJ
GC30	23238562	Coil, Peaking, TRF4109AJ (32MW7DG)
GC31	23238562	Coil, Peaking, TRF4109AJ (32MW7DG)
GF01	23238562	Coil, Peaking, TRF4109AJ
GR41	23237969	Coil, Peaking, TRF4331AC
GR42	23237969	Coil, Peaking, TRF4331AC
GV05	23238562	Coil, Peaking, TRF4109AJ
GV13	24366681	CF, 680 ohm
GV17	23289109	Coil, Peaking, TRF41R0AF
H002	23148275	Module, MVGS48, UK MPX APRO (32MW7DB)
H002	23148276	Module, MVGS49, MPX APRO (32MW7DG)
KB01	23904946	Remote Sensor, RPM-676CBR-S
P004	23161702	Terminal, 8P
P661	23363607	Headphone Jack, 3.5mm
P801	23372012	Power Cord (32MW7DB)
P801	23372014	Power Cord (32MW7DG)
PD04	23364092	Pin Jack
PD05	A5812240	Socket, Optic Receiver
PV03	23365515	Jack, SVHS
PV04	23363252	Pin Jack, Yellow
PV05	23365508	Jack, Phono
S601	23145355	Switch, Slide, 4C-2P
⚠S801	23344395	Switch, Power
SA01	23145430	Switch, Push, 1C1P
SA02	23145430	Switch, Push, 1C1P
SA03	23145430	Switch, Push, 1C1P
SA04	23145430	Switch, Push, 1C1P
SA06	23145430	Switch, Push, 1C1P
⚠V901A	23903027	Socket, CRT, 8P
W661	23351116	Speaker, SPK-1382, 60x120mm, 8 ohm
W661	23351116	Speaker, SPK-1382, 60x120mm, 8 ohm
W662	23351116	Speaker, SPK-1382, 60x120mm, 8 ohm
W662	23351116	Speaker, SPK-1382, 60x120mm, 8 ohm
W663	23351002	Speaker, SPK-1276, 80x80mm, 8 ohm
W663	23351002	Speaker, SPK-1276, 80x80mm, 8 ohm
W664	23351002	Speaker, SPK-1276, 80x80mm, 8 ohm
W665	23351080	Speaker, SPK-1352, 100x100mm, 6 ohm
X401	23153721	Ceramic Resonator, 503kHz, TCR1023
X501	23153961	Crystal, 3.58MHz
X503	23153979	Crystal, 4.43MHz
XA01	23153325	Ceramic Resonator, 8.00M, TCR1056
XF01	23153421	Crystal, 20.48MHz
XQ01	23153969	Crystal (32MW7DG)
Z201	23107519	Ceramic Video Trap, 4.43MHz, TCF1066
Z410	23110840	Focus Pack, TPA6029
Z420	23144539	Protector, PRF20005491, 125V, 2A
⚠Z430	23144536	Protector, PRF10005491, 125V, 1A
Z501	23103844	Filter, TEM2029AD
Z801	23103839	Ferrite Core, TFE1012
Z801	23904998	IC, HIC1016
⚠Z890	23144543	Protector, PRF50005491, 125V, 5A
⚠Z891	23144543	Protector, PRF50005491, 125V, 5A
Z896	23144539	Protector, PRF20005491, 125V, 2A
Z897	23144539	Protector, PRF20005491, 125V, 2A
Z902	23103839	Ferrite Core, TFE1012
ZC01	23107626	Filter, TEM1022
ZD101	23153325	Ceramic Resonator, TCR1056

Location No.	Part No.	Description
ZK01	23262661	Coil, IF, TRF1155D
ZK02	23153325	Ceramic Resonator, 8.00M, TCR1056
ZX101	23103823	Filter, TEM2027D
ZX102	23103823	Filter, TEM2027D
ZX103	23103823	Filter, TEM2027D
ZX104	23103823	Filter, TEM2027D
ZX201	23103823	Filter, TEM2027D
ZX202	23103823	Filter, TEM2027D
ZX203	23103823	Filter, TEM2027D
ZX801	23303181	Filter, TEM1012N
ZX802	23303181	Filter, TEM1012N

PC BOARD ASSEMBLIES

Location No.	Part No.	Description
✻U101A	23706673	Dolby Board, PB7325X-1
✻U101B	23781062	Digital-IN Board, PB7325X-2
✻U901	23706920	CRT Drive Board, PB7466X
✻U902A	23706921	Signal Board, PB7273G-1 (32MW7DB)
✻U902A	23706926	Signal Board, PB7273N-1 (32MW7DG)
✻U903	23706922	Power Board, PB7274G (32MW7DB)
✻U903	23706927	Power Board, PB7274N (32MW7DG)
✻U904A	23706923	Def Board, PB7275Y-1
✻U904B	23706924	Cont-1 Board, PB7275Y-2
✻U904C	23706925	Cont-2 Board, PB7275Y-3
✻U905	23706619	Back Term. Board, PB7276X
✻U906A	23706625	1H-Delay Board, PB7213Z-1 (32MW7DB)
✻U906A	23706798	1H-Delay Board, PB7213Y-1 (32MW7DG)
✻U906B	23706626	Digi-Comb Board, PB7213Z-2 (32MW7DB)
✻U906B	23706799	Digi-Comb Board, PB7213Y-2 (32MW7DG)
✻U906C	23706621	YUV-SW Board, PB7213Z-3 (32MW7DB)
✻U906C	23706787	YUV-SW Board, PB7213Y-3 (32MW7DG)
✻U907	23705945	Text Board, PB6598Y
✻U908A	23706825	UP-Converter Board, PB7366X
✻UG01	23705942	Auto Live Board, PB6704

PICTURE TUBE

Location No.	Part No.	Description
⚠V901	23312708	Picture Tube, W76ESF031X44

TUNER

Location No.	Part No.	Description
H001	23321238	Tuner, UF812BLX2(32MW7DB)
H001	23321278	Tuner, EGA12LX3 (32MW7DG)

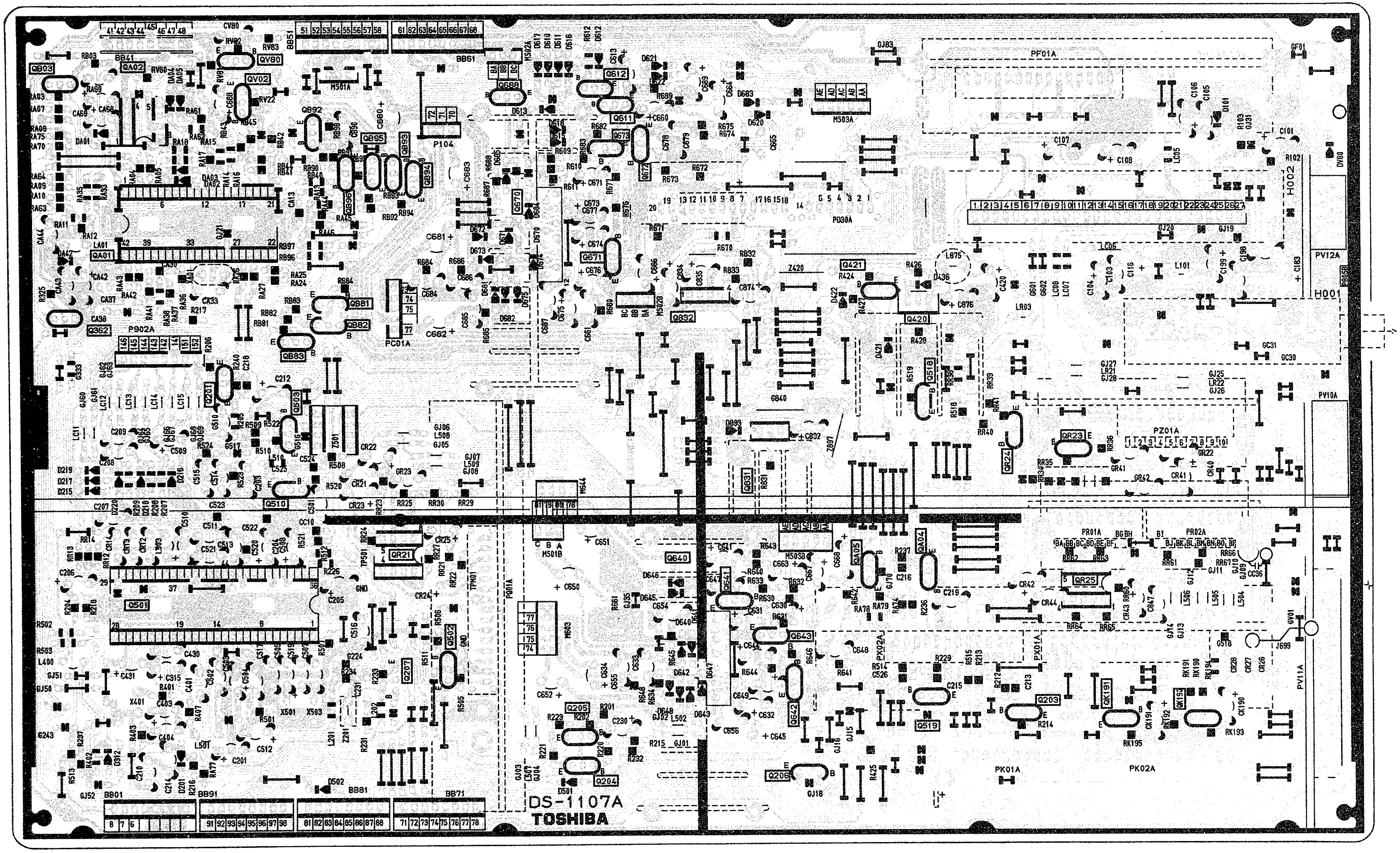
ACCESSORIES

Location No.	Part No.	Description
K902	23306176	Remote Hand Unit, CT-9868
Y101	23563129	Owner's Manual, English, 32MW7DB
Y101	23563131	Owner's Manual, English, 32MW7DG
Y102	23563132	Owner's Manual, French, 32MW7DG
Y103	23563133	Owner's Manual, German, 32MW7DG

Location No.	Part No.	Description
Y104	23563134	Owner's Manual, Italian, 32MW7DG
Y105	23563135	Owner's Manual, Spanish, 32MW7DG
Y106	23563136	Owner's Manual, Finnish, 32MW7DG
Y107	23563137	Owner's Manual, Norwegian, 32MW7DG
Y108	23563138	Owner's Manual, Portuguese, 32MW7DG
Y109	235631399	Owner's Manual, Polish, 32MW7DG

SIGNAL BOARD PB7273G-1/PB7273N-1

BOTTOM (FOIL) SIDE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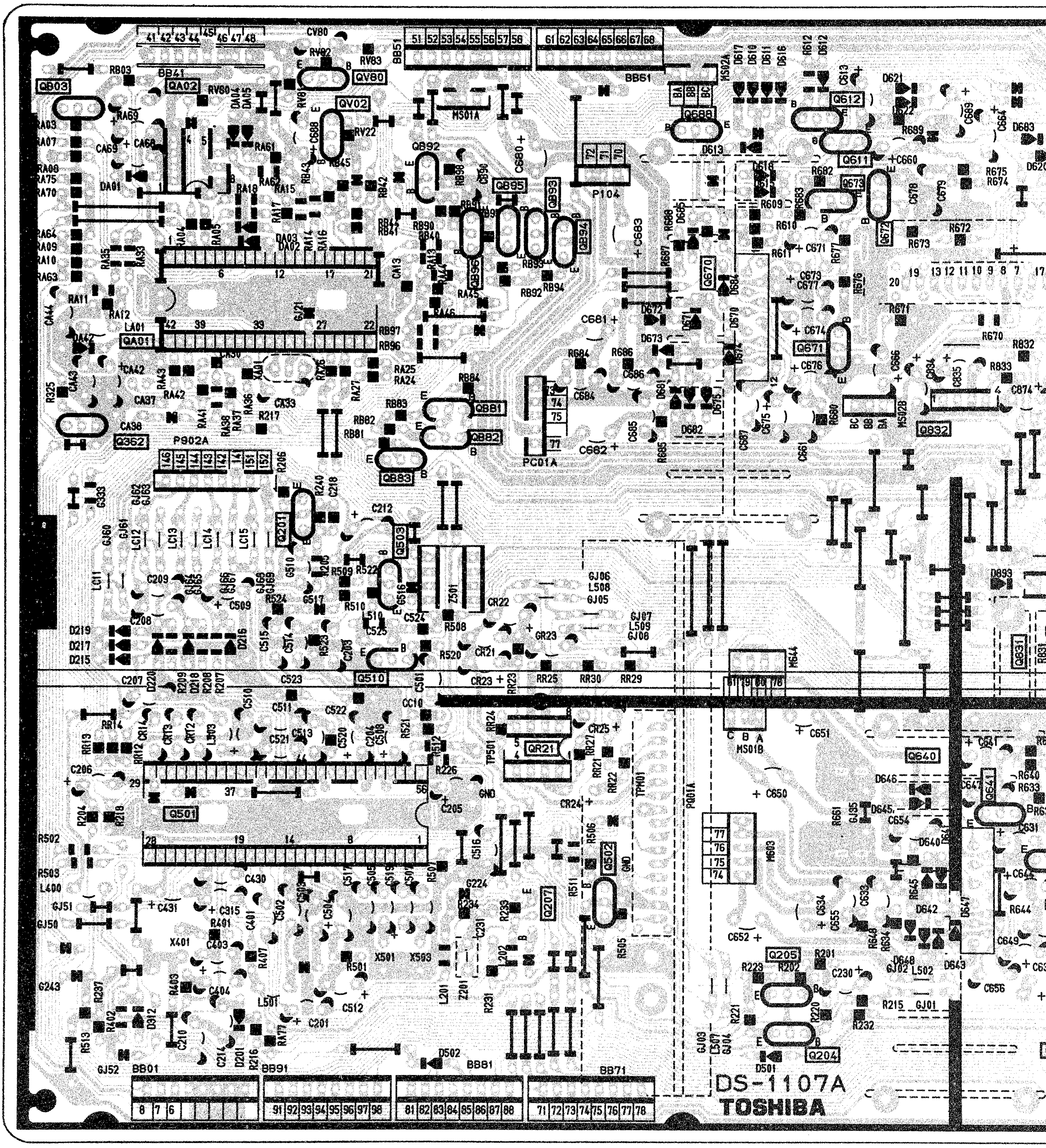
SIGNAL BOARD PB7273G

BOTTOM (FOIL) SIDE



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RD PB7273G-1/PB7273N-1

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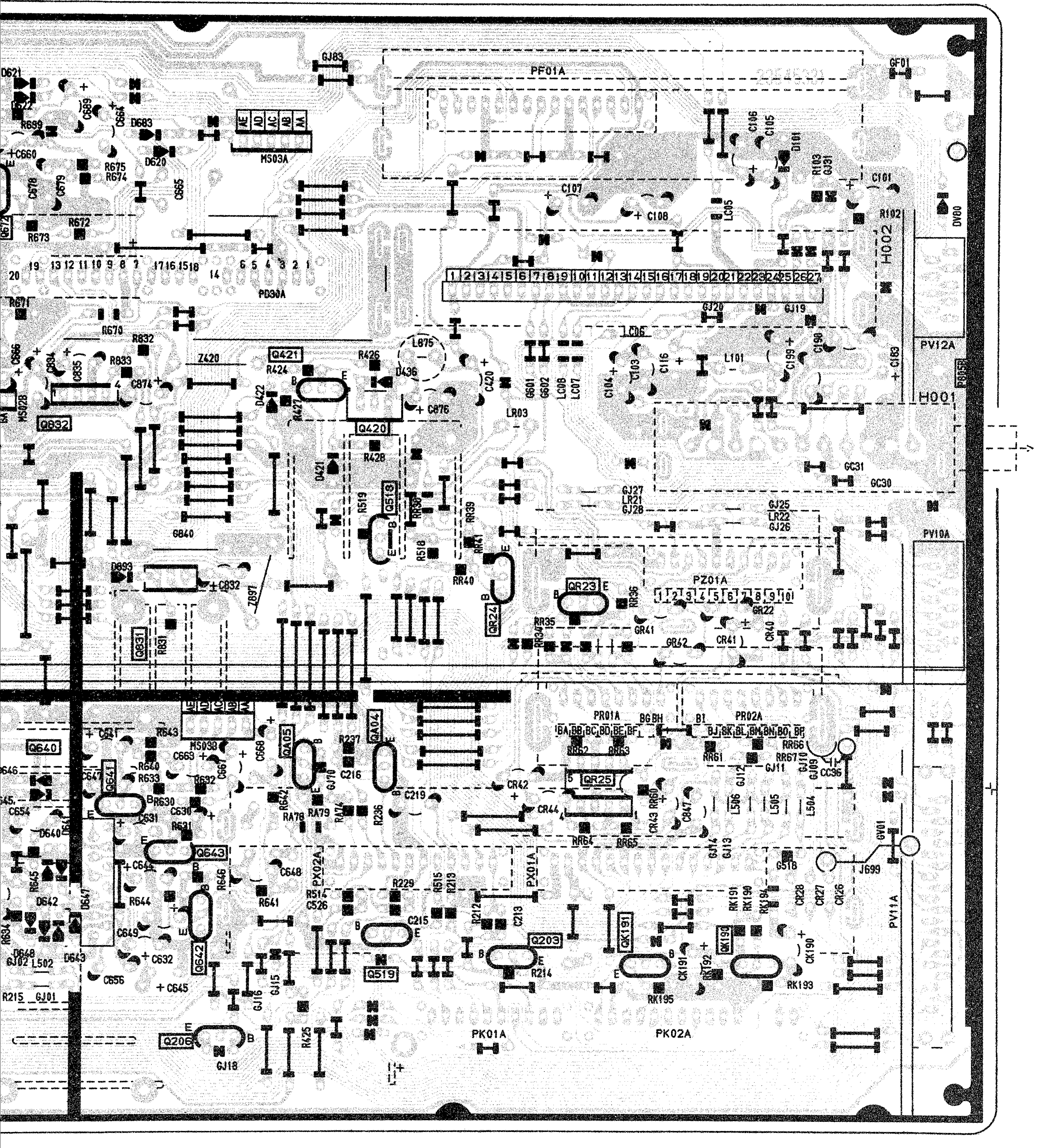

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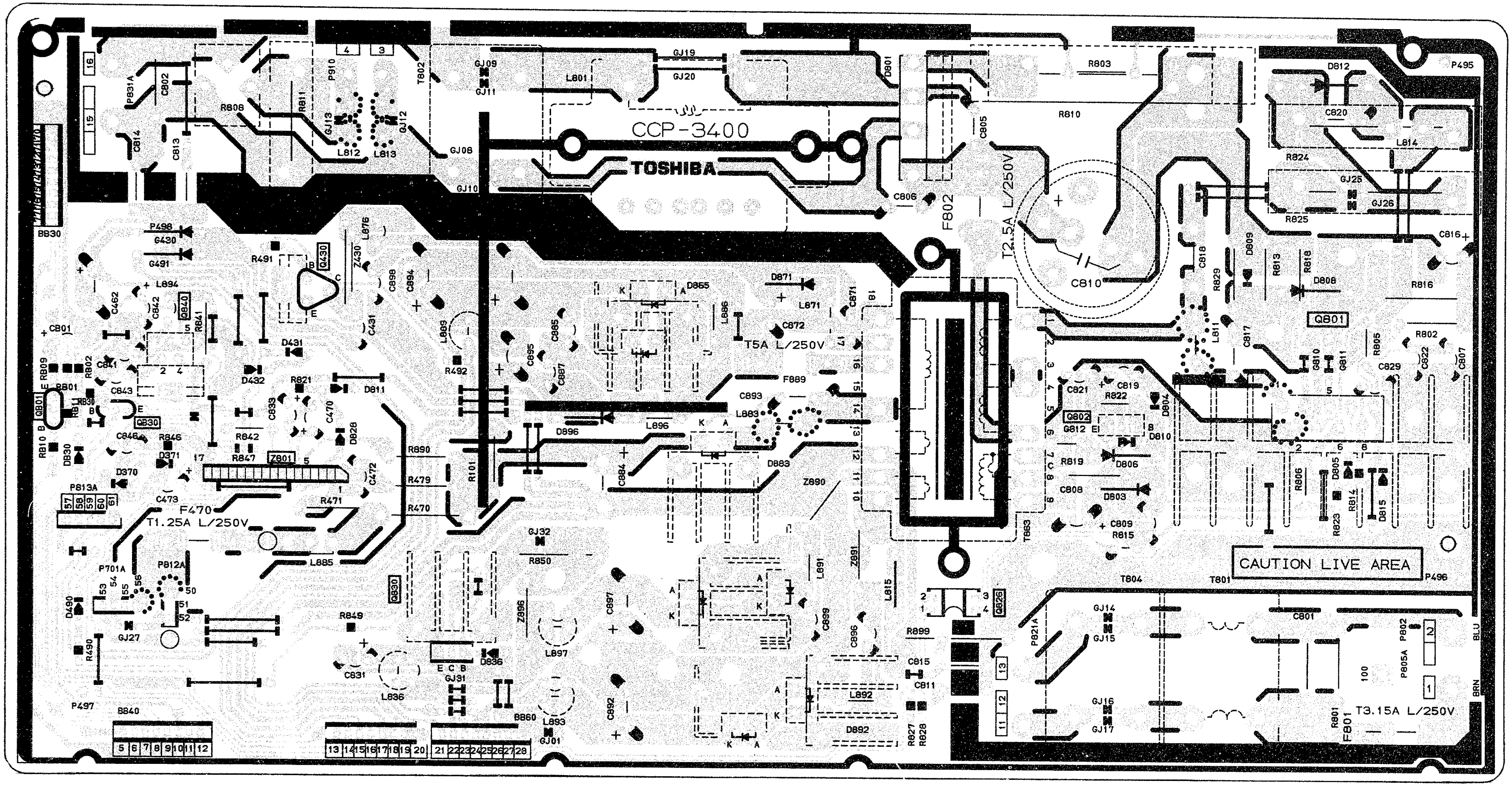
POWER BOARD PB7274G/PB7274N

BOTTOM (FOIL) SIDE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F470
F801
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Q430
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T802
T804
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P498
P910
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P812A
P813A
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P821A
P802
P805A
BLU
BRN
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POWER BOARD PB72

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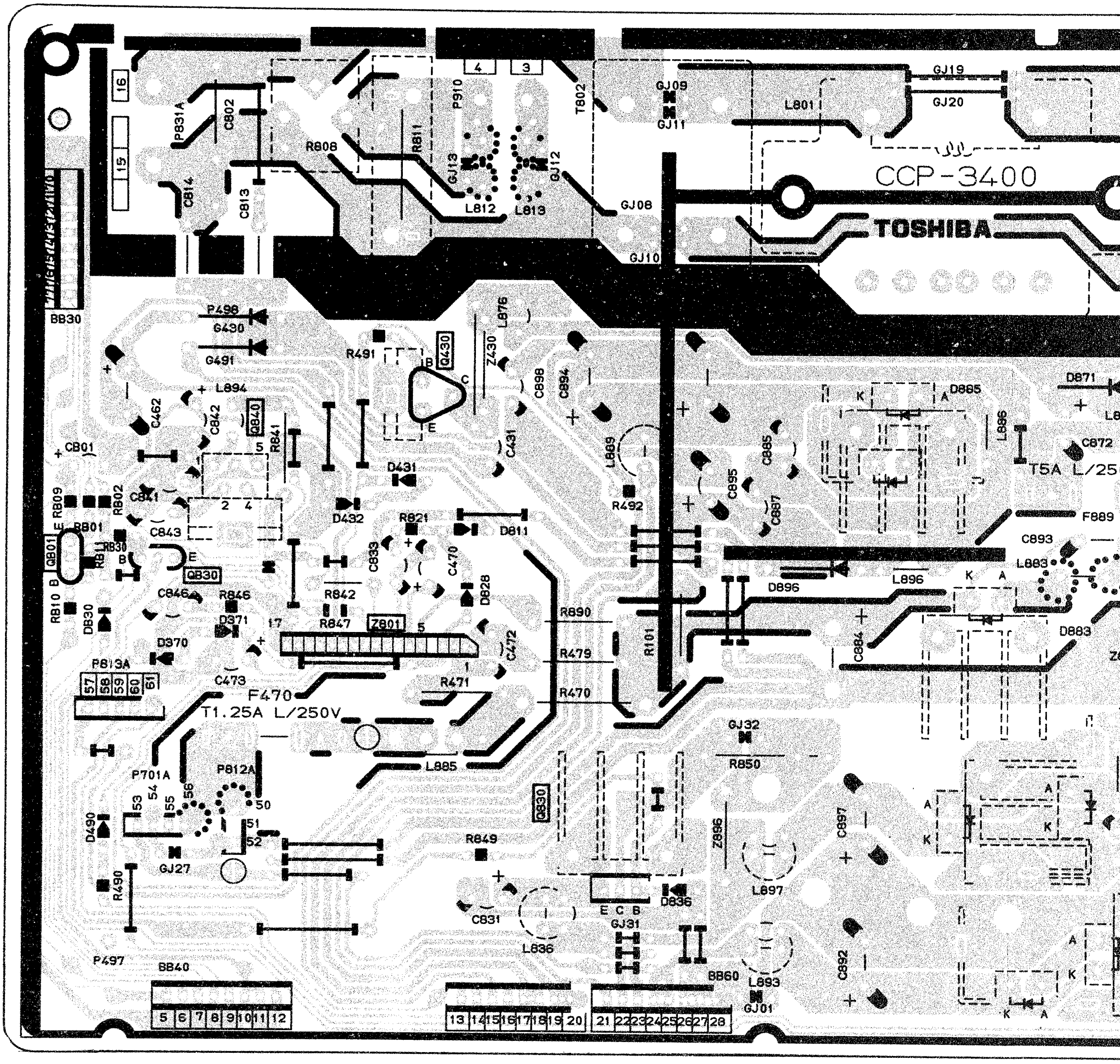

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RD PB7274G/PB7274N

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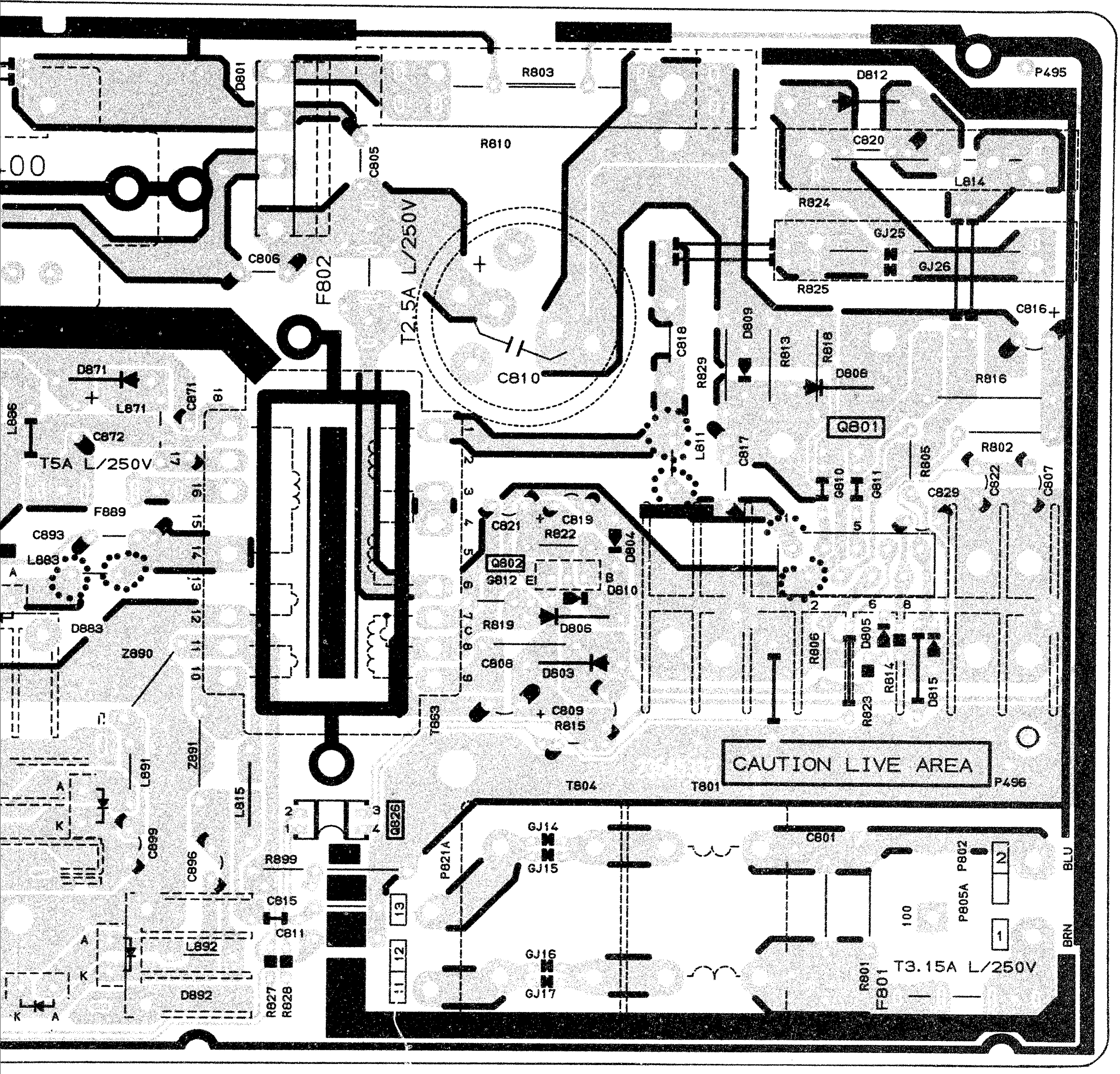
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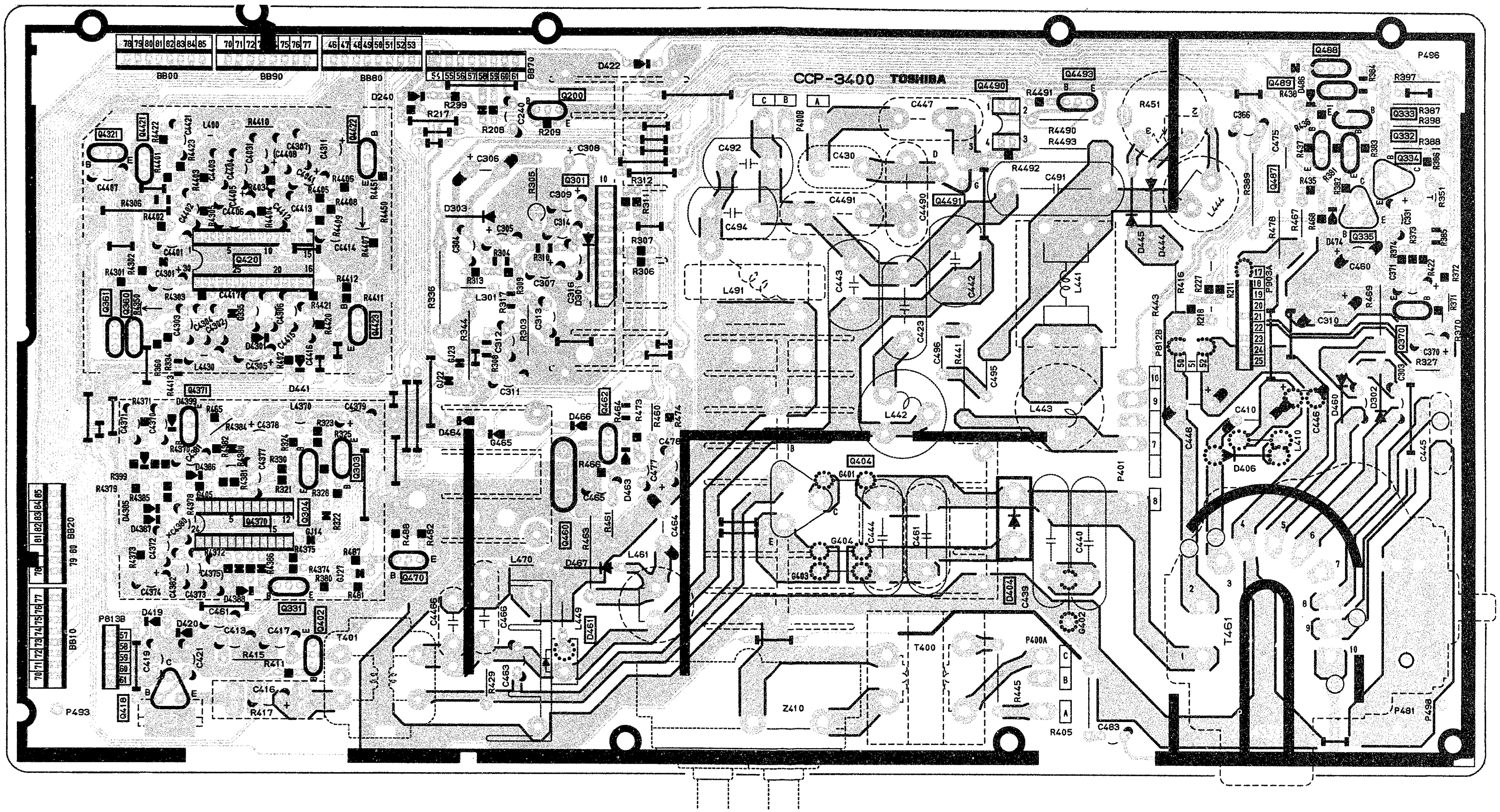
DEF BOARD PB7275Y-1

BOTTOM (FOIL) SIDE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DEF BOARD PB7275Y-

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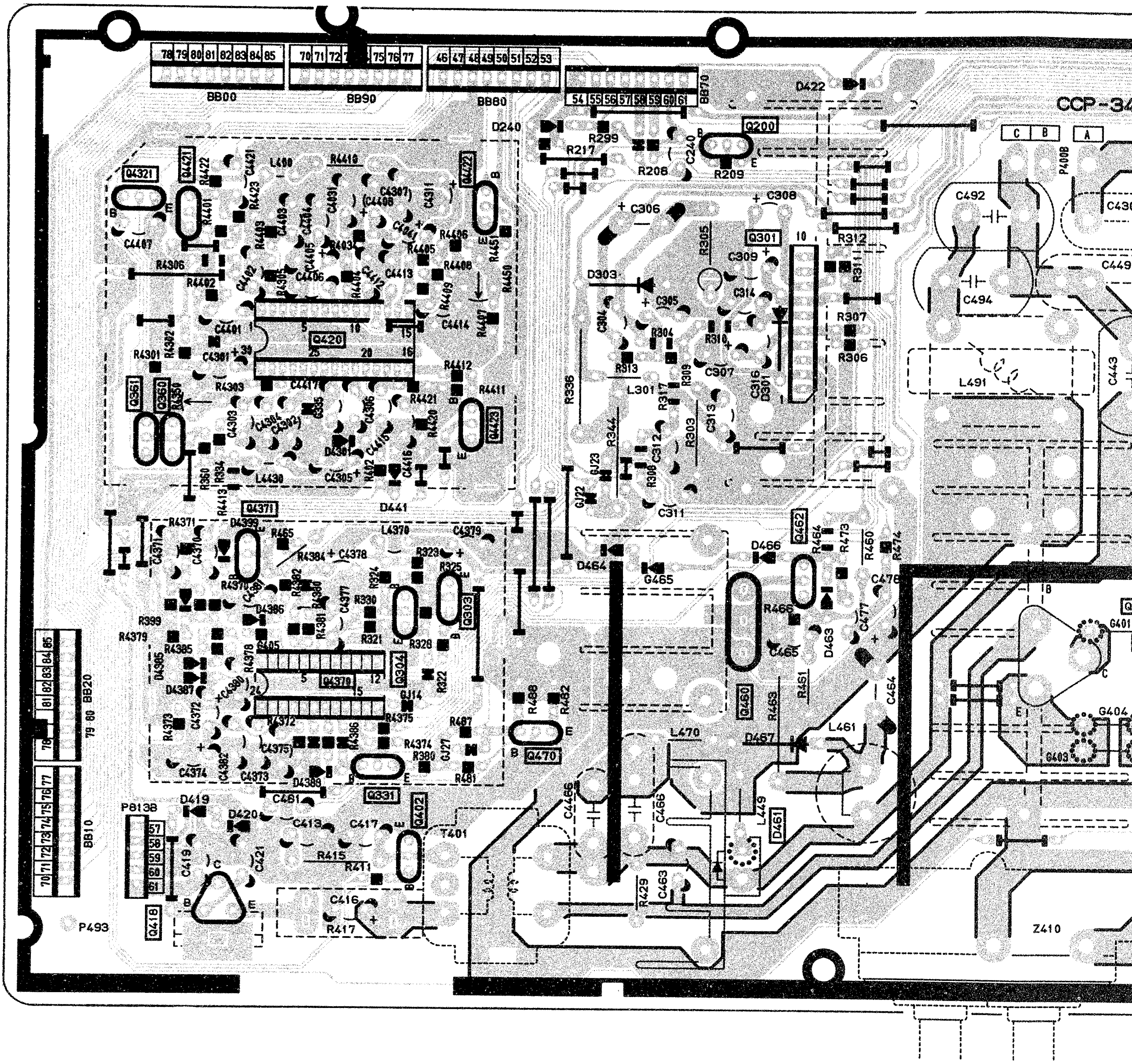

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ARD PB7275Y-1

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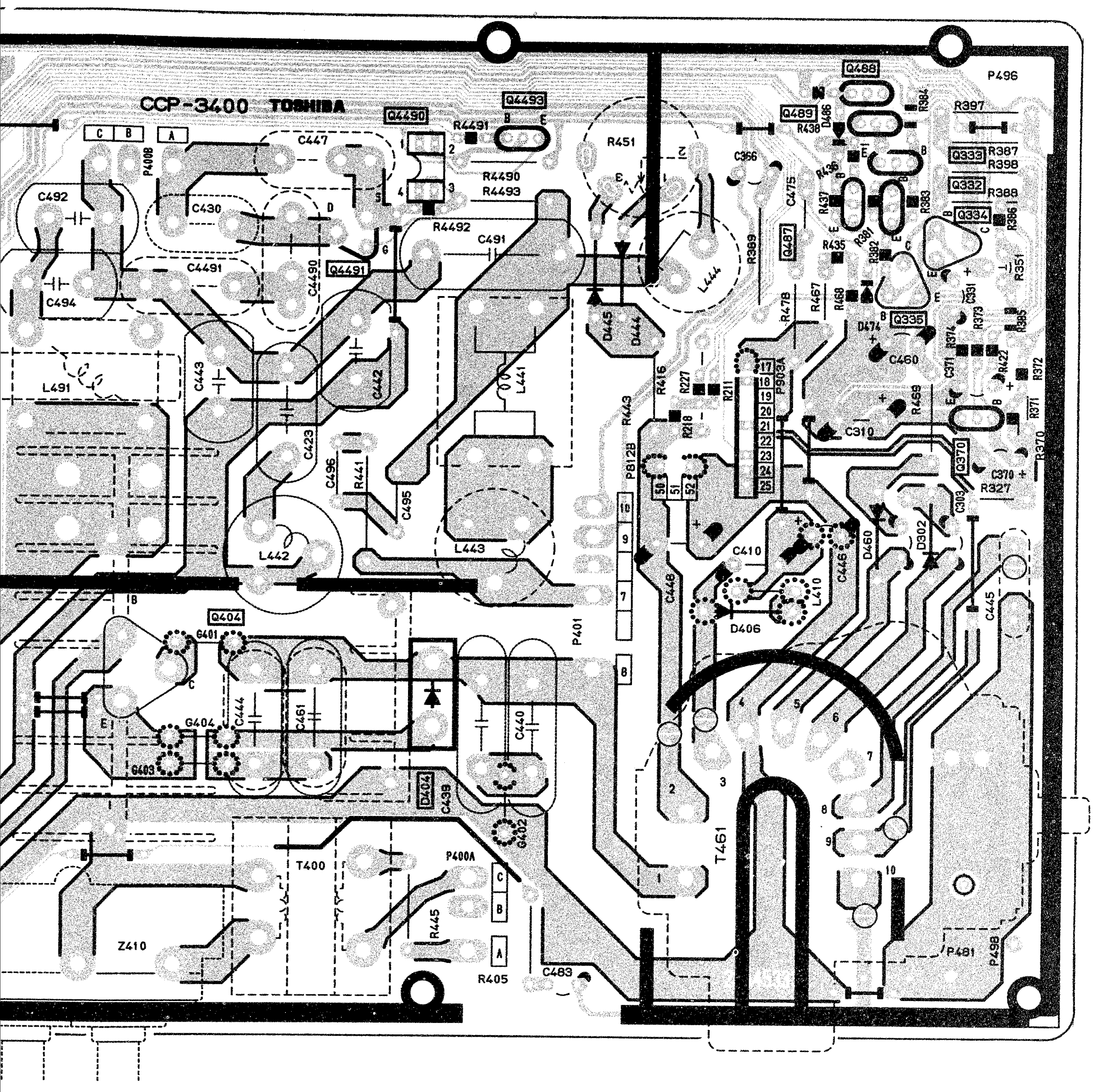
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R388
Q334
R386
R351
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P400B
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R4490
R4493
R4492
R451
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R435
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R382
R383
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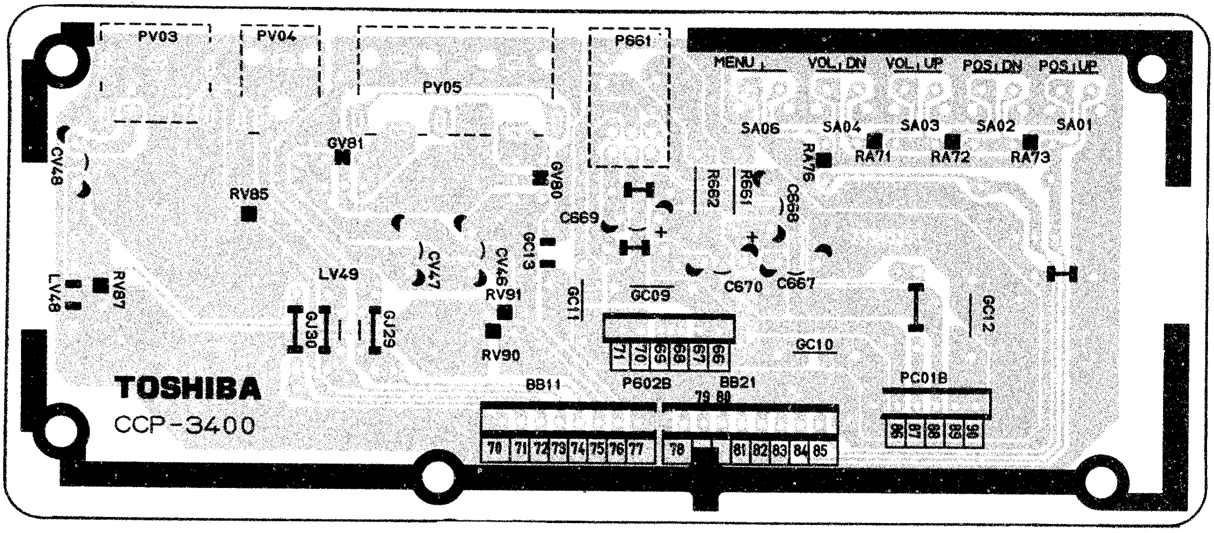
CONT-1 BOARD PB7275Y-2

BOTTOM (FOIL) SIDE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RA73
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CV47
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RV91
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RV90
GC10
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PC01B
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CONT-2 BOARD PB7275Y-3

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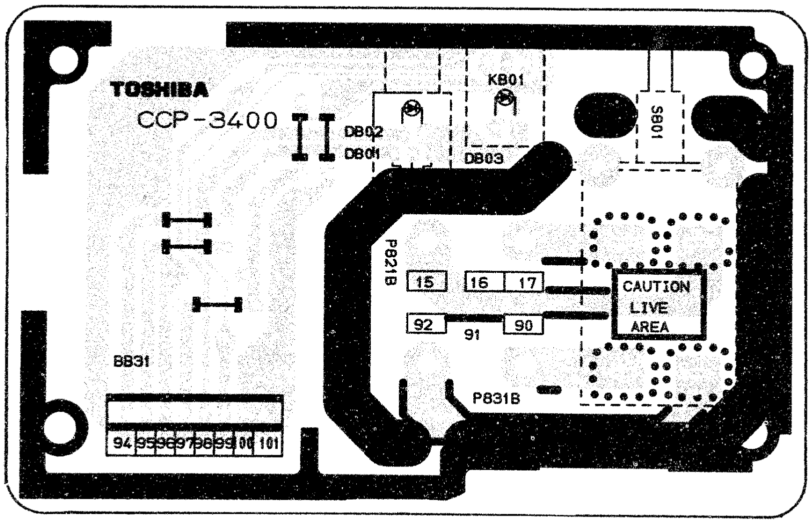
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LIVE
AREA
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BB31
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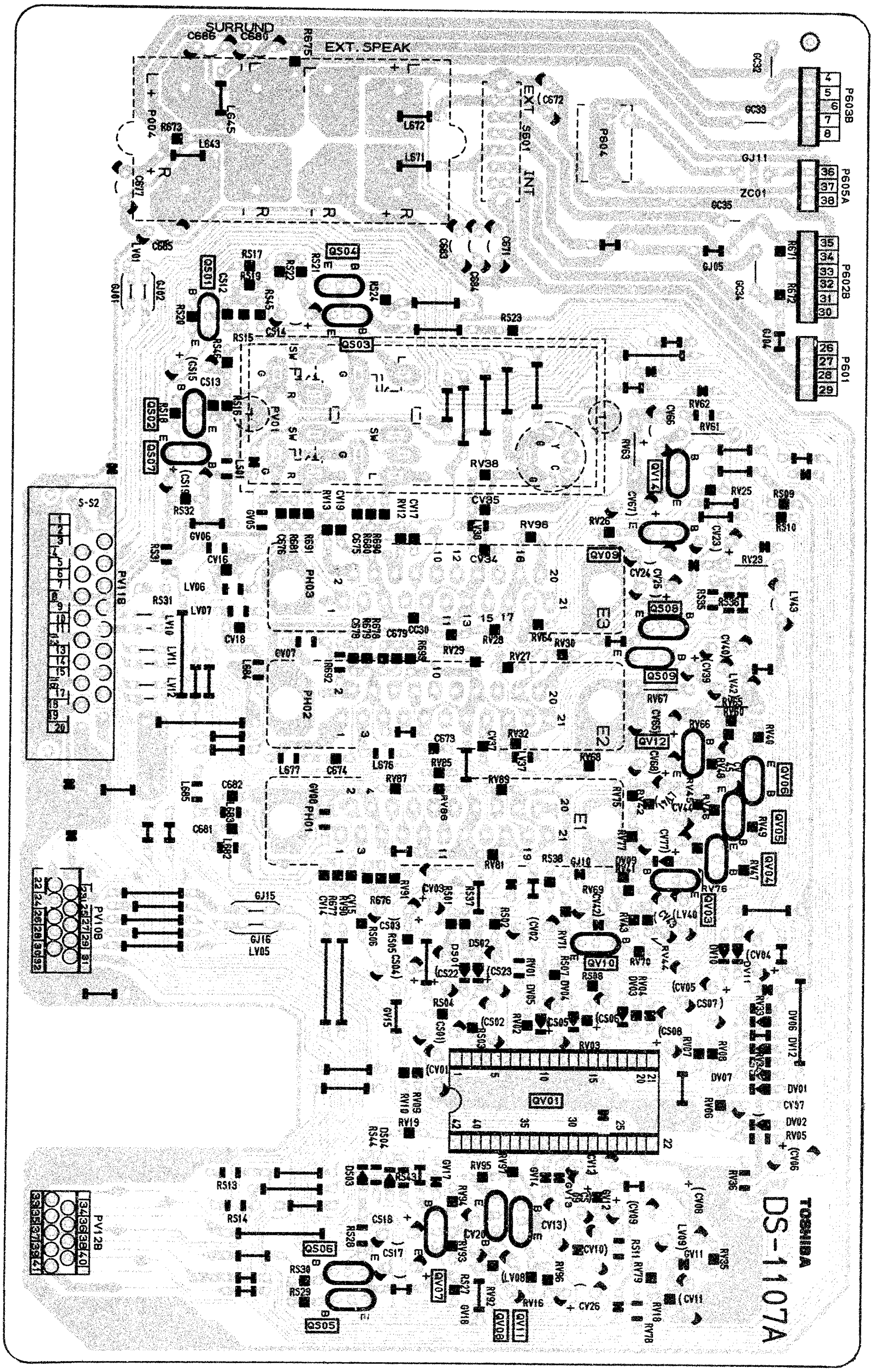
BACK TERMINAL/AV BOARD PB7276X

BOTTOM (FOIL) SIDE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PV10B
PV12B
QV01
PH03
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PV01
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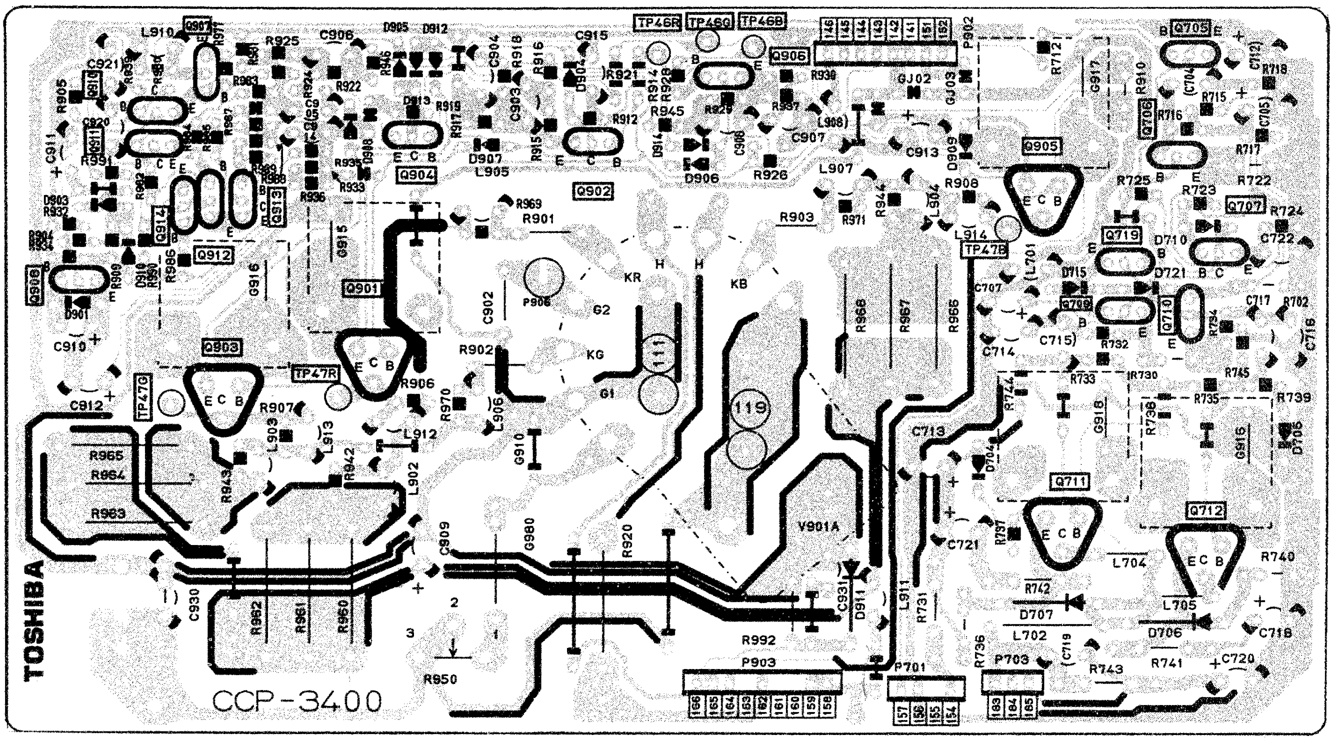
DS-1107A

CRT DRIVE/DSM BOARD PB7466X

BOTTOM (FOIL) SIDE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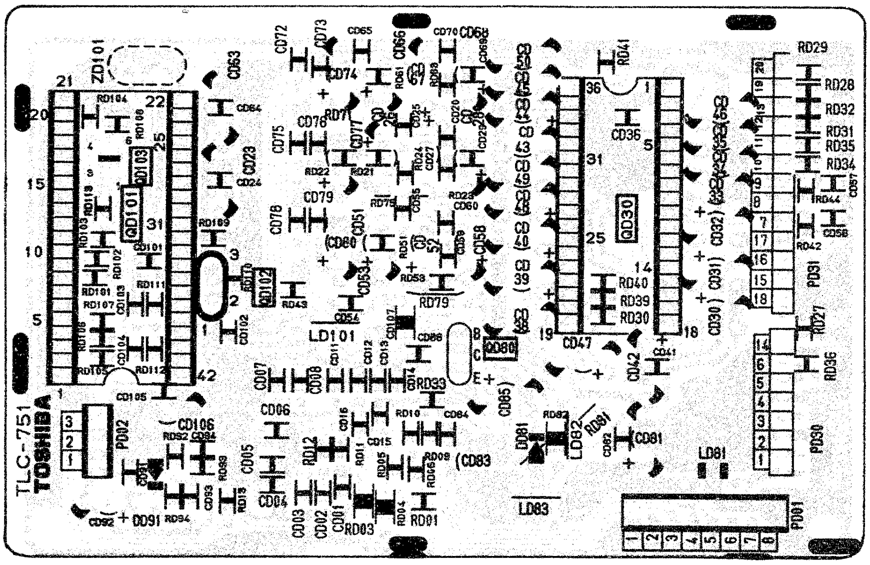
TP47R
TP47G
TP47B
Q901
Q902
Q903
Q904
Q905
Q906
Q907
Q908
Q910
Q911
Q912
Q913
Q914
Q705
Q706
Q707
Q708
Q710
Q711
Q712
Q719
V901A
KR
KG
KB
G1
G2
H
P901
P902
P903
P701
P703
L910
L905
L907
L912
L913
L914
L702
L704
L705
D707
D706
D710
D721
D715
R901
R902
R903
R906
R907
R908
R950
R960
R961
R962
R963
R964
R965
R966
R967
R968
R992
R740
R741
R742
R743
C906
C907
C909
C910
C912
C913
C915
C919
C920
C921
C930
C713
C714
C715
C716
C717
C718
C720
C721
C722
111
119

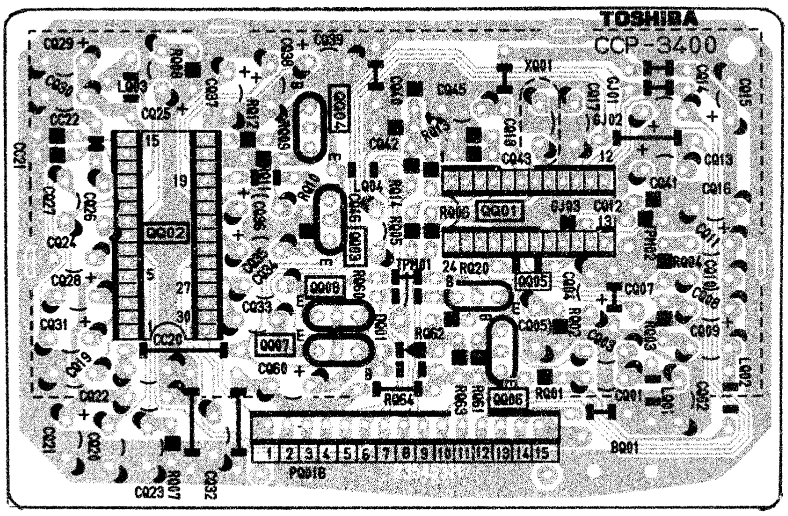
DOLBY BOARD PB7325X-1

BOTTOM (FOIL) SIDE


TLC-751
TOSHIBA
ZD101
QD101
QD102
QD103
QD30
QD80
LD101
LD81
LD82
LD83
PD01
PD02
PD30
PD31
RD29
RD28
RD32
RD31
RD35
RD34
RD36
RD27
RD40
RD39
RD30
RD41
RD79
CD36
CD47
CD53
CD54
CD58
CD63
CD64
CD66
CD73
CD74
CD75
CD76
CD78
CD79
CD81
CD83
CD105
CD106
DD91
RD01
RD03
1
5
10
15
20
21
22
25
31
36
42
14
18
19

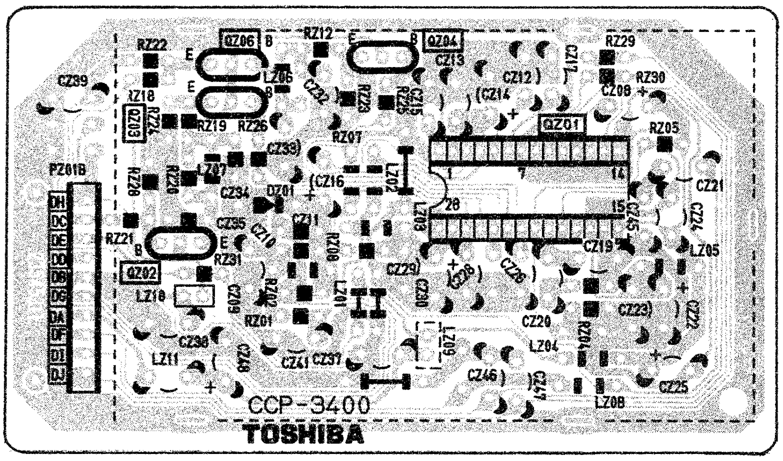
SECAM BOARD PB7213Z-1/PB7213Y-1

BOTTOM (FOIL) SIDE


TOSHIBA
CCP-3400
XQ01
QQ01
QQ02
QQ03
QQ04
QQ05
QQ06
QQ07
QQ08
PQ01B
BQ01
TPQ01
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

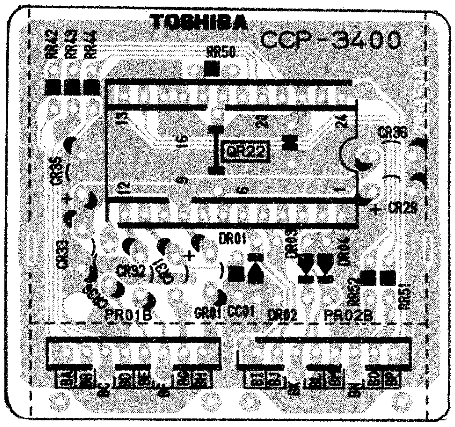
COMB BOARD PB7213Z-2/PB7213Y-2

BOTTOM (FOIL) SIDE


QZ01
QZ02
QZ03
QZ04
QZ06
PZ01B
DH
DC
DE
DD
DB
DG
DA
DF
DI
DJ
CCP-3400
TOSHIBA

YUV S/W BOARD PB7213Z-3/PB7213Y-3

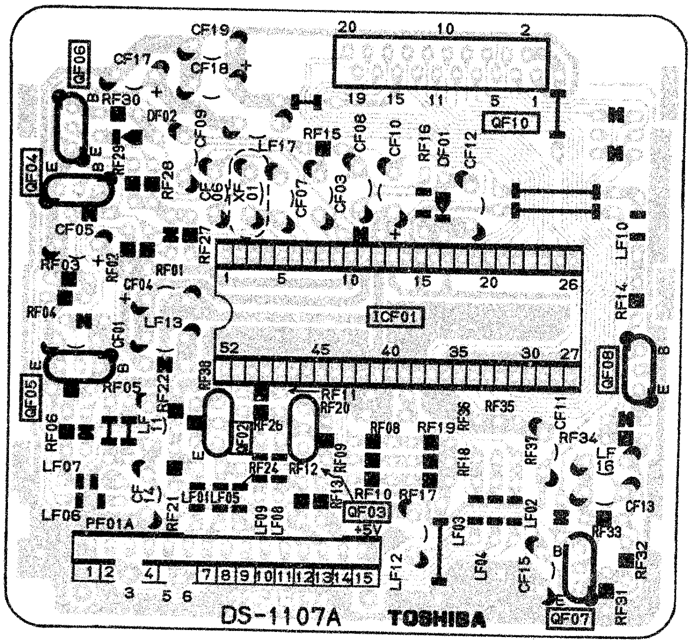
BOTTOM (FOIL) SIDE



TOSHIBA
CCP-3400
RR42
RR43
RR44
RR50
QR22
CR36
CR35
CR29
CR33
DR01
DR03
DR04
CR32
PR01B
CR01
CC01
DR02
PR02B
RR52
RR51

TEXT BOARD PB6598Y

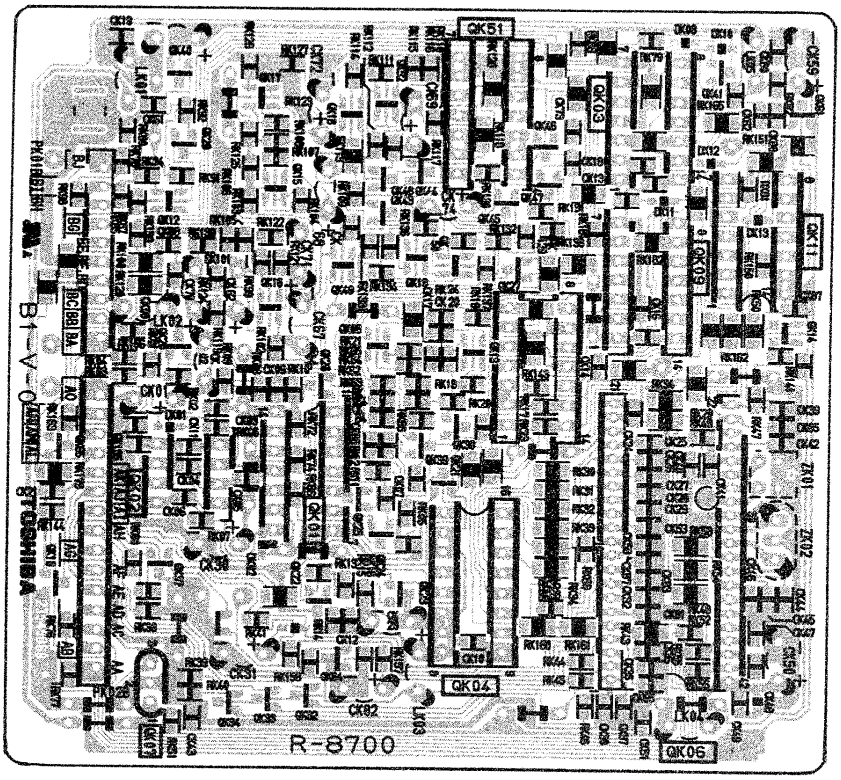
BOTTOM (FOIL) SIDE



CF19
20
10
2
QF06
CF17
CF18
19
15
11
5
1
RF30
DF02
CF09
RF15
CF08
CF10
RF16
DF01
CF12
QF10
QF04
RF29
RF28
LF17
XF01
CF07
CF03
CF05
RF27
RF03
RF02
RF01
CF04
1
5
10
15
20
26
RF14
LF10
RF04
LF13
ICF01
CF01
52
45
40
35
30
27
QF08
QF05
RF05
RF22
RF38
RF11
RF20
RF06
QF02
RF26
RF08
RF19
RF36
RF35
CF11
RF34
LF07
RF24
RF12
RF09
RF18
RF37
LF11
RF13
RF10
RF17
CF13
LF06
PF01A
RF21
LF01
LF05
LF09
LF08
QF03
+5V
LF02
RF33
LF03
1
2
4
7
8
9
10
11
12
13
14
15
LF12
LF04
CF15
RF32
3
5
6
DS-1107A
TOSHIBA
QF07
RF31

AUTO LIVE BOARD PB6704

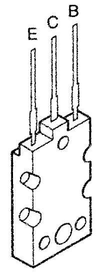
BOTTOM (FOIL) SIDE



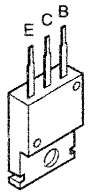
QK51
QK03
QK09
QK11
QK01
QK04
QK06
LK02
LK04
B1-A-0
TOSHIBA
R-8700

TERMINAL VIEW OF TRANSISTORS

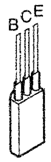
① 2SD2253
(old)
2SC5243



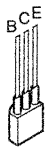
② 2SC3852
2SD1763A
2SC1569
2SC4544
2SA1788
2SA1306
2SA1186A



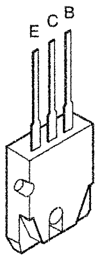
③ 2SC752GTM
2SC2482
2SC2655
2SC4721P



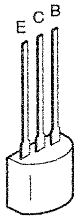
④ 2SC752
2SA562TM
2SA1015
2SC1815
2SC2878
2SC1740S
2SC2120
2SA9335



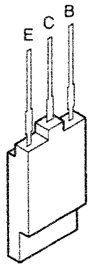
⑤ 2SA1788



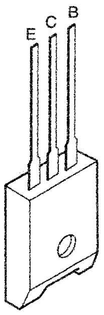
⑥ RN2203
RN2201
RN2004
RN1203
RN1204
RN2204
RN1205
RN1202
RN1201



⑦ 2SD1554
2SD2253
2SD1556
2SC5143



⑧ ON4409



MEMO

MEMO

SPECIFICATIONS (32MW7DB)

Input Power Rating: 200 Watts (Normal), AC 220 ~ 240 Volts, 50 Hz

Aerial Input Impedance: 75 ohm unbalanced type for VHF, UHF and CATV

Receiving Channels:

System	Channel	VHF	UHF	CATV
PAL I	UK	—	21 ~ 69	—

PAL, 50 Hz/60 Hz (For Video Disk play back)
4.43 NTSC (For VCR playback), 3.58 NTSC (For VCR playback)

Intermediate Frequencies:
Picture I-F carrier frequency .... 38.9 MHz (L VL)
Sound I-F carrier frequency
I System .... 32.9 MHz

Picture Tube: *32 inches, W76ESF031X44, 760 mm (measured on diagonal of viewable picture area)*
110° deflection

Sound Output: 10 W + 10W (at 10% Distortion, Main), 5W + 5W (at 10% Distortion, Center)
13W (at 10% Distortion, Woofer), 10W + 10W (at 10% Distortion, Surround)

Speakers:
60 mm x 120 mm oval, 2 pcs (Main)
100 mm, round, 1 pc (Woofer)
80mm, round, 2 pcs (Center)

Aux. Terminals: 21 pin socket (FULL), 21 pin socket (S-VIDEO/AV), MONITOR OUTPUT, STEREO HEADPHONE JACK (3.5mm).

Cabinet: Table type

Dimensions:
Height .... 581.4 mm
Width .... 912 mm
Depth .... 563 mm

Mass: 49.5 kg

SPECIFICATIONS (32MW7DG)

Input Power Rating: 170 Watts (Normal), AC 220 ~ 240 Volts, 50 Hz

Aerial Input Impedance: 75 ohm unbalanced type for VHF, UHF and CATV

Receiving Channels:

System	Channel	VHF	UHF	CATV	
PAL B/G	CCIR	2 ~ 12	21 ~ 69	S1 ~ S41	X ~ Z + 2,
SECAM B/G	CCIR	2 ~ 12	21 ~ 69	S1 ~ S41	X ~ Z +2,
PAL D/K	CHINA	1 ~ 12	13 ~ 57	Z-1 ~ Z-35	
PAL I	UK		21 ~ 69		
SECAM D/K	OIRT	1 ~ 12	21 ~ 69	X-1 ~ X-19	
SECAM L	FRANCE/CCIR	FB ~ F6	21 ~ 69	X ~ Z + 2	S1 ~ S41

PAL, SECAM 50 Hz/60 Hz (For Video Disk play back)
4.43 NTSC (For VCR playback), 3.58 NTSC (For VCR playback)

Intermediate Frequencies:
Picture I-F carrier frequency .... 38.9 MHz (L VL)
Sound I-F carrier frequency
B/G System .... 33.4 MHz
D/K System .... 32.4 MHz

Picture Tube: 32 inches, W76ESF031X44, 760 mm (measured on diagonal of viewable picture area)
110° deflection

Sound Output: 10 W + 10W (at 10% Distortion, Main), 5 W + 5W (at 10% Distortion, Center)
13W (at 10% Distortion, Woofer), 10 W + 10W (at 10% Distortion, Surround)

Speakers:
60 mm x 120 mm oval, 2 pcs (Main)
100 mm, round, 1 pc (Woofer)
80 mm, round, 2 pcs (Center)

Aux. Terminals: 21 pin socket (FULL), 21 pin socket (S-VIDEO/AV), MONITOR OUTPUT, STEREO HEADPHONE JACK (3.5mm).

Cabinet: Table type

Dimensions:
Height .... 581.4 mm
Width .... 912 mm
Depth .... 563 mm

Mass: 49.5 kg

Specifications are subject to change without notice.

SCHEMATIC DIAGRAM MODEL : 32MW7DB (1/6)
32MW7DG

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary ±20%.
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

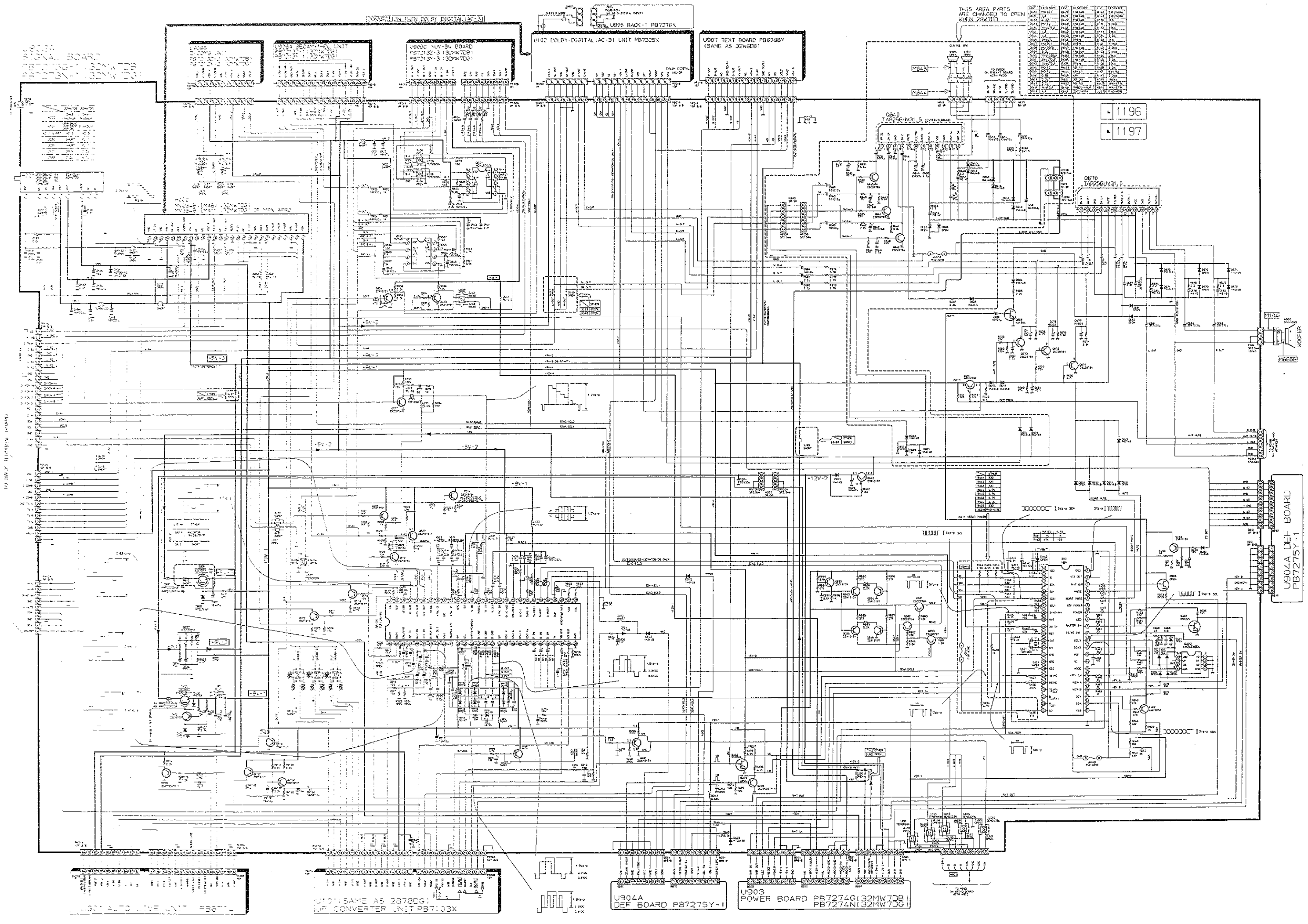
NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. ⊜ : Solder links.

EXPRESSION

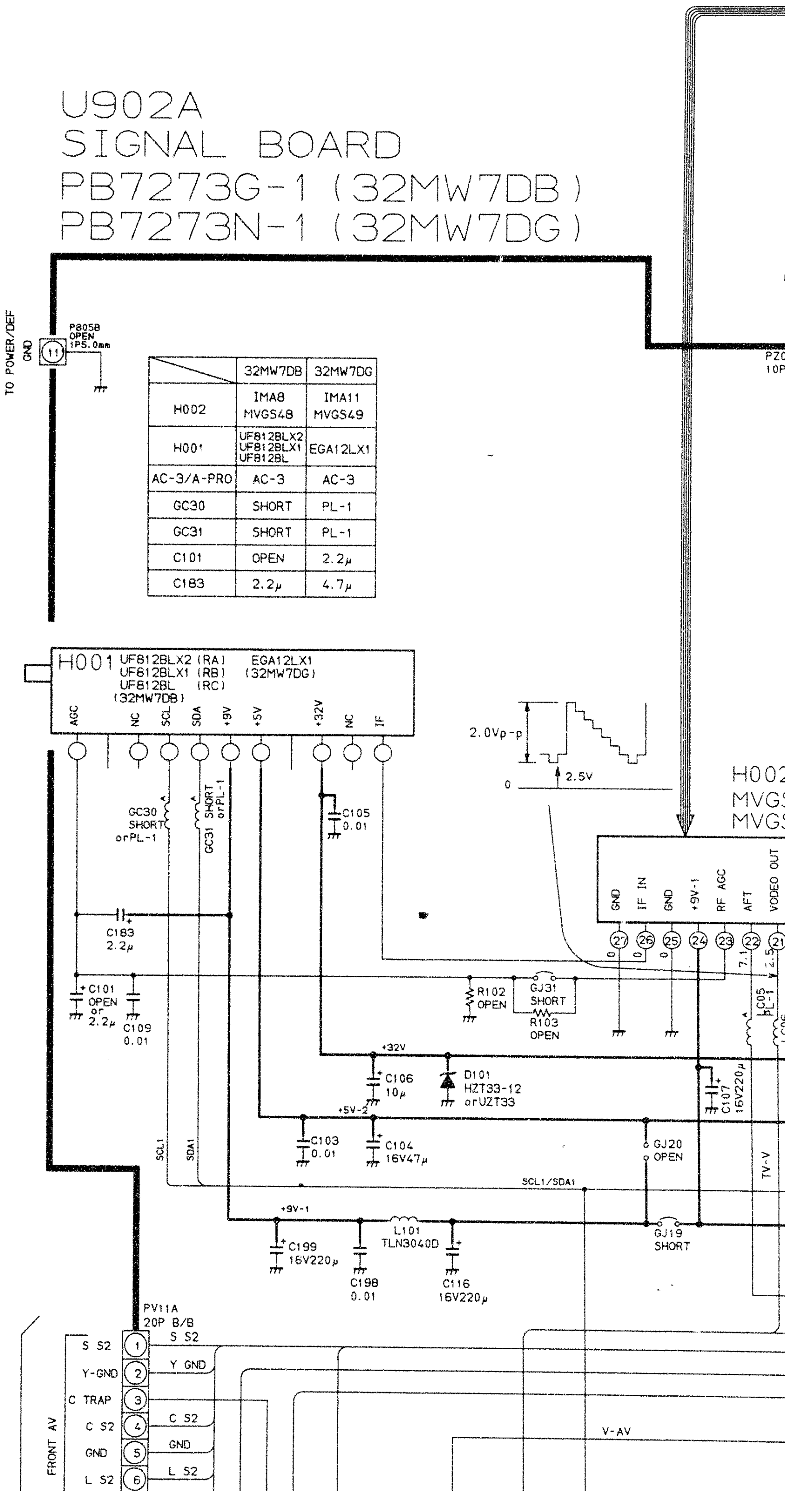
VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in µF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in µH, and the values less than 1 in H.


CONNECTION THEN DOLBY DIGITAL (AC-3)
U905 BACK-T PB7276X
U102 DOLBY-DIGITAL (AC-3) UNIT PB7275X
U907 TEXT BOARD PB6598Y (SAME AS 32W8DB)
U906C YUV-SW BOARD PB7213Z-3 (32MW7DB) PB7213Y-3 (32MW7DG)
U906A SECAM+HDL UNIT
THIS AREA PARTS ARE CHANGED TO OPEN WHEN 28W7DD
Q640
Q670
1196
1197
+5V-2
+9V-2
+9V-1
+12V-2
WOOFER
U904A DEF BOARD PB7275Y-1
U903 POWER BOARD PB7274G (32MW7DB) PB7274N (32MW7DG)
U101 (SAME AS 28780G) UP CONVERTER UNIT PB7103X
U901 AUTO LINE UNIT PB871-

SCHEMATIC DIAGRAM MODEL : 32MW7DB (1/6)
32MW7DG

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate com ponents which have special characteristics important for safety and should be replaced only with types identi those in the original circuit or specified in the parts list. The mounting position of replacements is to be identic with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE or 3. Do not degrade the safety of the receiver through improper servicing.



U902A
SIGNAL BOARD
PB7273G-1 (32MW7DB)
PB7273N-1 (32MW7DG)
TO POWER/DEF
GND
P805B OPEN 1P5.0mm
11
PZ0
10P
H001 UF812BLX2 (RA) UF812BLX1 (RB) UF812BL (RC) (32MW7DB)
EGA12LX1 (32MW7DG)
AGC
NC
SCL
SDA
+9V
+5V
+32V
NC
IF
2.0Vp-p
2.5V
0
H002
MVG
MVG
GND
IF IN
GND
+9V-1
RF AGC
AFT
VIDEO OUT
27
26
25
24
23
22
21
GC30 SHORT or PL-1
GC31 SHORT or PL-1
C105 0.01
C183 2.2µ
C101 OPEN or 2.2µ
C109 0.01
R102 OPEN
GJ31 SHORT
R103 OPEN
+32V
C106 10µ
D101 HZT33-12 or UZT33
C107 16V220µ
C05
+5V-2
C103 0.01
C104 16V47µ
GJ20 OPEN
TV-V
SCL1
SDA1
SCL1/SDA1
+9V-1
C199 16V220µ
C198 0.01
L101 TLN3040D
C116 16V220µ
GJ19 SHORT
PV11A 20P B/B
FRONT AV
S S2
Y-GND
C TRAP
C S2
GND
L S2
1
2
3
4
5
6
S S2
Y GND
C S2
GND
L S2
V-AV

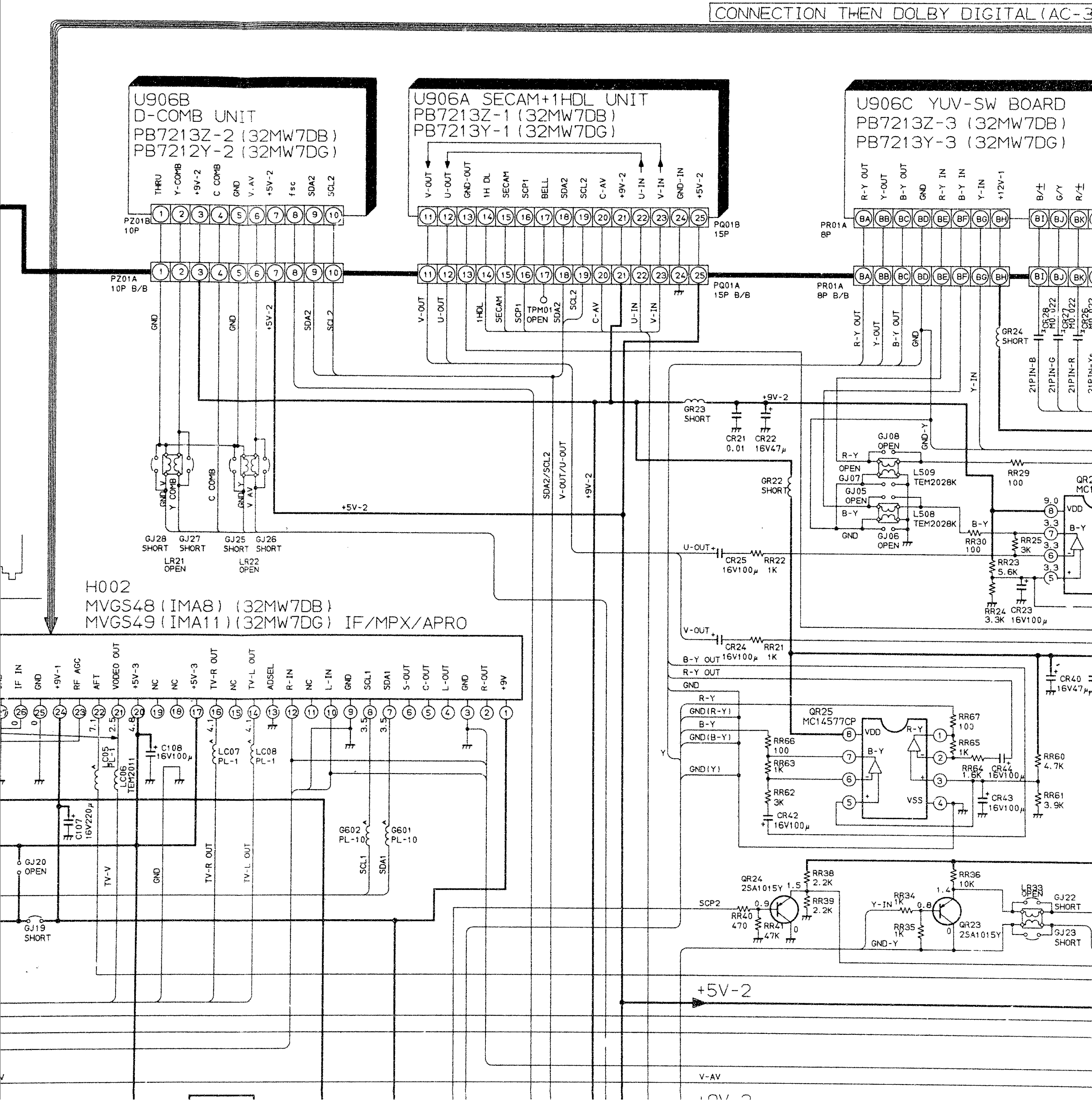
	32MW7DB	32MW7DG
H002	IMA8 MVGS48	IMA11 MVGS49
H001	UF812BLX2 UF812BLX1 UF812BL	EGA12LX1
AC-3/A-PRO	AC-3	AC-3
GC30	SHORT	PL-1
GC31	SHORT	PL-1
C101	OPEN	2.2µ
C183	2.2µ	4.7µ

(1/6)

esignate com-
n types identical to
s to be identical
Y NOTICE on page

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 22
   volts, colour bar signal. Voltages reading may vary ±20%.
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position an
   BRIGHTNESS control is almost in maximum position. Set other controls for bes
   picture.



CONNECTION THEN DOLBY DIGITAL (AC-3
U906B
D-COMB UNIT
PB7213Z-2 (32MW7DB)
PB7212Y-2 (32MW7DG)
THRU
Y-COMB
+9V-2
C COMB
GND
V.AV
+5V-2
fsc
SDA2
SCL2
PZ01B
10P
PZ01A
10P B/B
U906A SECAM+1HDL UNIT
PB7213Z-1 (32MW7DB)
PB7213Y-1 (32MW7DG)
V-OUT
U-OUT
GND-OUT
1H DL
SECAM
SCP1
BELL
SDA2
SCL2
C-AV
+9V-2
U-IN
V-IN
GND-IN
+5V-2
PQ01B
15P
PQ01A
15P B/B
TPM01
OPEN
U906C YUV-SW BOARD
PB7213Z-3 (32MW7DB)
PB7213Y-3 (32MW7DG)
R-Y OUT
Y-OUT
B-Y OUT
GND
R-Y IN
B-Y IN
Y-IN
+12V-1
PR01A
8P
PR01A
8P B/B
GR24
SHORT
21PIN-B
21PIN-G
21PIN-R
GR23
SHORT
CR21
0.01
CR22
16V47μ
GR22
SHORT
GJ08
OPEN
GJ07
OPEN
GJ05
OPEN
GJ06
OPEN
L509
TEM2028K
L508
TEM2028K
RR29
100
RR30
100
RR25
3K
RR23
5.6K
RR24
3.3K
CR23
16V100μ
U-OUT
CR25
16V100μ
RR22
1K
V-OUT
CR24
16V100μ
RR21
1K
B-Y OUT
R-Y OUT
GND
R-Y
GND(R-Y)
B-Y
GND(B-Y)
GND(Y)
QR25
MC14577CP
VDD
VSS
RR66
100
RR63
1K
RR62
3K
CR42
16V100μ
RR67
100
RR65
1K
RR64
1.6K
CR44
16V100μ
CR43
16V100μ
CR40
16V47μ
RR60
4.7K
RR61
3.9K
GJ28
SHORT
GJ27
SHORT
LR21
OPEN
GJ25
SHORT
GJ26
SHORT
LR22
OPEN
SDA2/SCL2
V-OUT/U-OUT
+9V-2
+5V-2
H002
MVGS48 (IMA8) (32MW7DB)
MVGS49 (IMA11) (32MW7DG) IF/MPX/APRO
IF IN
GND
+9V-1
RF AGC
AFT
VDEO OUT
+5V-3
NC
NC
+5V-3
TV-R OUT
NC
TV-L OUT
ADSEL
R-IN
NC
L-IN
GND
SCL1
SDA1
S-OUT
C-OUT
L-OUT
GND
R-OUT
+9V
C108
16V100μ
LC05
LC06
TEM2011
LC07
PL-1
LC08
PL-1
C107
16V220μ
G602
PL-10
G601
PL-10
GJ20
OPEN
GJ19
SHORT
TV-V
GND
TV-R OUT
TV-L OUT
SCL1
SDA1
QR24
2SA1015Y
SCP2
RR40
470
RR41
47K
RR38
2.2K
RR39
2.2K
RR36
10K
Y-IN
RR34
1K
RR35
1K
GND-Y
QR23
2SA1015Y
LR33
OPEN
GJ22
SHORT
GJ23
SHORT
+5V-2
V-AV

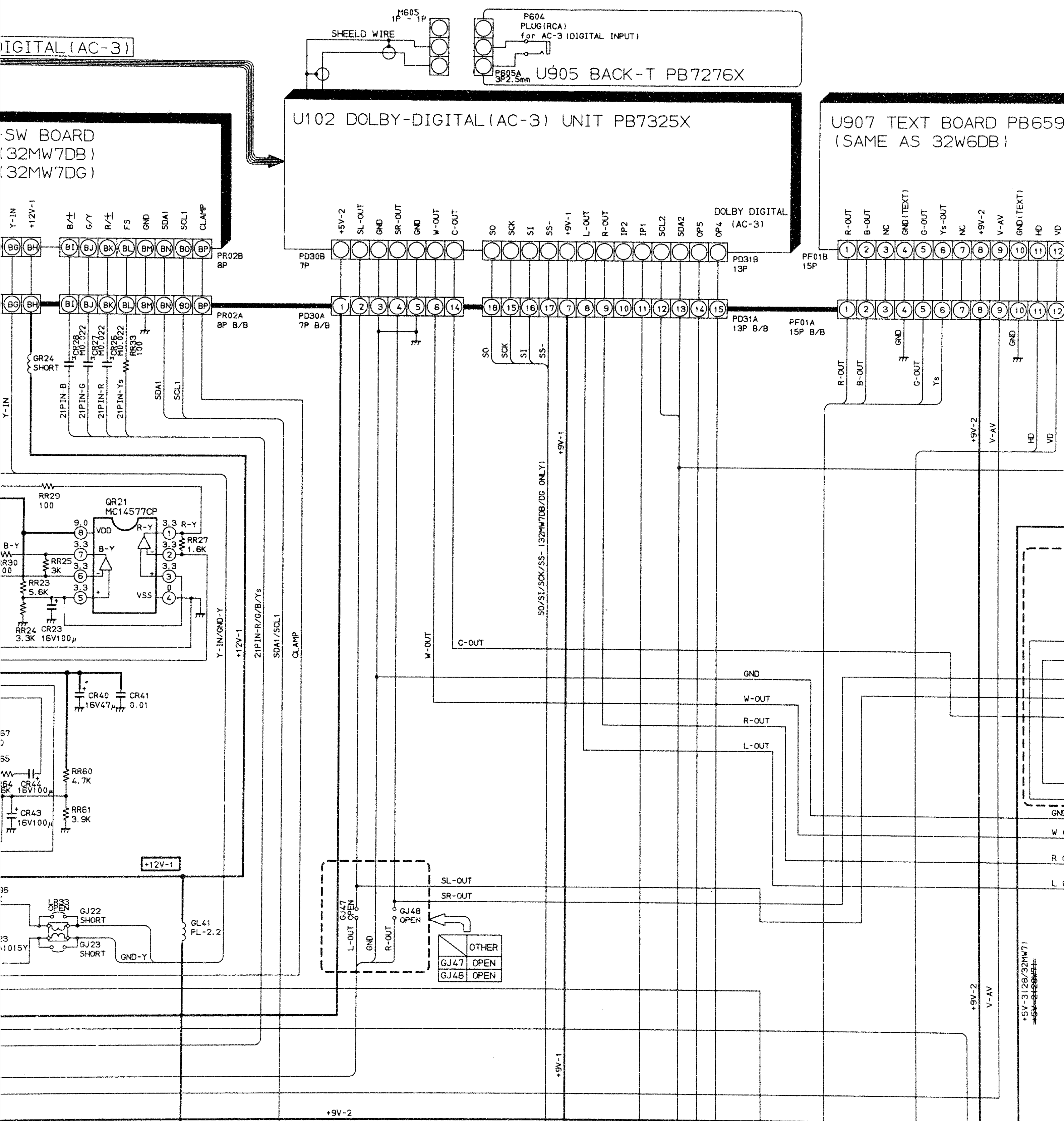
e voltage 220

apacity probe.

position and
ntrols for best

NOTES:

1. D.C. resistance value of a principal transformer is shown in this schem
   gram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. ⊖ : Solder links.



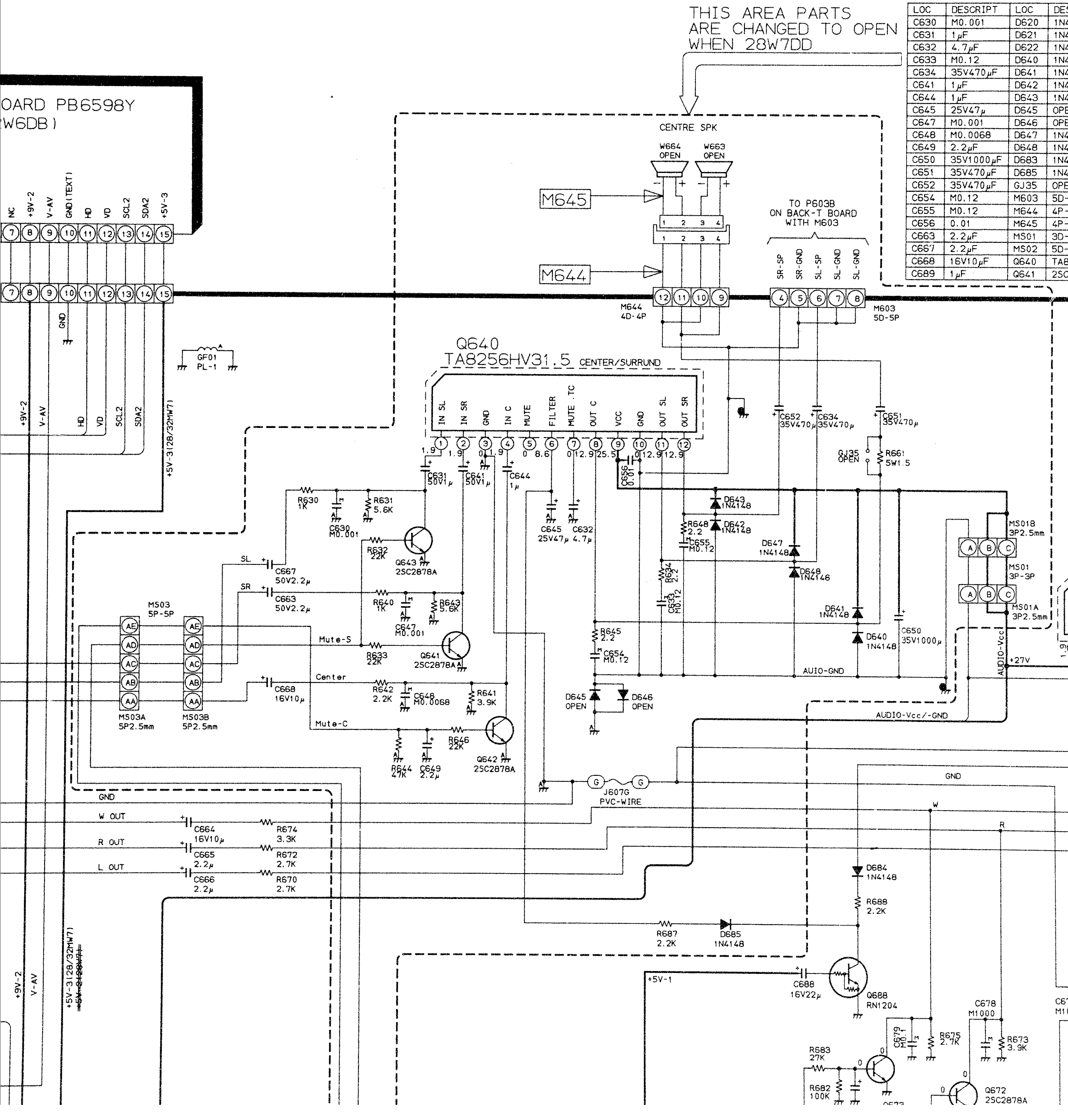
IGITAL (AC-3)
M605 1P - 1P
SHEELD WIRE
P604 PLUG (RCA) for AC-3 (DIGITAL INPUT)
P605A 3P 2.5mm
U905 BACK-T PB7276X
U102 DOLBY-DIGITAL (AC-3) UNIT PB7325X
DOLBY DIGITAL (AC-3)
U907 TEXT BOARD PB659
(SAME AS 32W6DB)
-SW BOARD
(32MW7DB)
(32MW7DG)
Y-IN
+12V-1
B/±
G/Y
R/±
FS
GND
SDA1
SCL1
CLAMP
PR02B 8P
PR02A 8P B/B
+5V-2
SL-OUT
GND
SR-OUT
GND
W-OUT
C-OUT
PD30B 7P
PD30A 7P B/B
SO
SCK
SI
SS-
+9V-1
L-OUT
R-OUT
IP2
IP1
SCL2
SDA2
OP5
OP4
PD31B 13P
PD31A 13P B/B
R-OUT
B-OUT
NC
GND (TEXT)
G-OUT
Ys-OUT
NC
+9V-2
V-AV
GND (TEXT)
HD
VD
PF01B 15P
PF01A 15P B/B
GR24 SHORT
CR28 M0.022
CR27 M0.022
CR26 M0.022
RR33 100
21PIN-B
21PIN-G
21PIN-R
21PIN-Ys
SDA1
SCL1
R-OUT
B-OUT
GND
G-OUT
Ys
+9V-2
V-AV
HD
VD
+9V-1
SO/SI/SCK/SS- (32MW7DB/DG ONLY)
RR29 100
QR21 MC14577CP
VDD
VSS
B-Y
R-Y
9.0
3.3
3.3
3.3
3.3
3.3
3.3
3.3
0
RR30 100
RR25 3K
RR23 5.6K
RR27 1.6K
RR24 3.3K
CR23 16V100μ
Y-IN/GND-Y
+12V-1
21PIN-R/G/B/Ys
SDA1/SCL1
CLAMP
W-OUT
C-OUT
GND
W-OUT
R-OUT
L-OUT
CR40 16V47μ
CR41 0.01
RR60 4.7K
RR61 3.9K
CR42 16V100μ
CR43 16V100μ
+12V-1
LR33 OPEN
GJ22 SHORT
GJ23 SHORT
A1015Y
GND-Y
GL41 PL-2.2
SL-OUT
SR-OUT
GJ47 OPEN
GJ48 OPEN
L-OUT
GND
R-OUT
OTHER
GJ47 OPEN
GJ48 OPEN
GND
W
R
L
+9V-2
V-AV
+5V-3 (28/32MW7)
+9V-1
+9V-2

this schematic dia-

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 sed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 sed in μH, and the values less than 1 in H.



THIS AREA PARTS ARE CHANGED TO OPEN WHEN 28W7DD
OARD PB6598Y
W6DB)
CENTRE SPK
W664 OPEN
W663 OPEN
M645
M644
TO P603B ON BACK-T BOARD WITH M603
SR-SP
SR-GND
SL-SP
SL-GND
SL-GND
M644 4D-4P
M603 5D-5P
NC
+9V-2
V-AV
GND(TEXT)
HD
VD
SCL2
SDA2
+5V-3
GND
GF01 PL-1
+5V-3(28/32MW7)
Q640
TA8256HV31.5 CENTER/SURRUND
IN SL
IN SR
GND
IN C
MUTE
FILTER
MUTE TC
OUT C
VCC
GND
OUT SL
OUT SR
C631 50V1μ
C641 50V1μ
C644 1μ
C645 25V47μ
C632 4.7μ
C656 0.01
C652 35V470μ
C634 35V470μ
C651 35V470μ
GJ35 OPEN
R661 5W1.5
R630 1K
R631 5.6K
C630 M0.001
R632 22K
Q643 2SC2878A
SL
SR
C667 50V2.2μ
C663 50V2.2μ
R640 1K
R643 5.6K
C647 M0.001
Mute-S
R633 22K
Q641 2SC2878A
Center
C668 16V10μ
R642 2.2K
C648 M0.0068
R641 3.9K
Mute-C
R646 22K
Q642 2SC2878A
R644 47K
C649 2.2μ
MS03 5P-5P
MS03A 5P2.5mm
MS03B 5P2.5mm
D643 1N4148
R648 2.2
D642 1N4148
C655 M0.12
D647 1N4148
D648 1N4148
R634 2.2
C633 M0.12
D641 1N4148
D640 1N4148
C650 35V1000μ
R645 2.2
C654 M0.12
D645 OPEN
D646 OPEN
AUIO-GND
MS01B 3P2.5mm
MS01 3P-3P
MS01A 3P2.5mm
AUDIO-Vcc
+27V
AUDIO-Vcc/-GND
J607G PVC-WIRE
GND
W OUT
R OUT
L OUT
C664 16V10μ
R674 3.3K
C665 2.2μ
R672 2.7K
C666 2.2μ
R670 2.7K
W
R
D684 1N4148
R688 2.2K
R687 2.2K
D685 1N4148
+5V-1
C688 16V22μ
Q688 RN1204
C678 M1000
C679 M0.1
R675 2.7K
R673 3.9K
R683 27K
R682 100K
Q672 2SC2878A
+9V-2
V-AV
+5V-3(28/32MW7)
~~+5V-3(28W7)~~

LOC	DESCRIPT	LOC	DES
C630	M0.001	D620	1N4
C631	1μF	D621	1N4
C632	4.7μF	D622	1N4
C633	M0.12	D640	1N4
C634	35V470μF	D641	1N4
C641	1μF	D642	1N4
C644	1μF	D643	1N4
C645	25V47μ	D645	OPE
C647	M0.001	D646	OPE
C648	M0.0068	D647	1N4
C649	2.2μF	D648	1N4
C650	35V1000μF	D683	1N4
C651	35V470μF	D685	1N4
C652	35V470μF	GJ35	OPE
C654	M0.12	M603	5D-
C655	M0.12	M644	4P-
C656	0.01	M645	4P-
C663	2.2μF	MS01	3D-
C667	2.2μF	MS02	5D-
C668	16V10μF	Q640	TA8
C689	1μF	Q641	2SC

and **INDUCTOR**

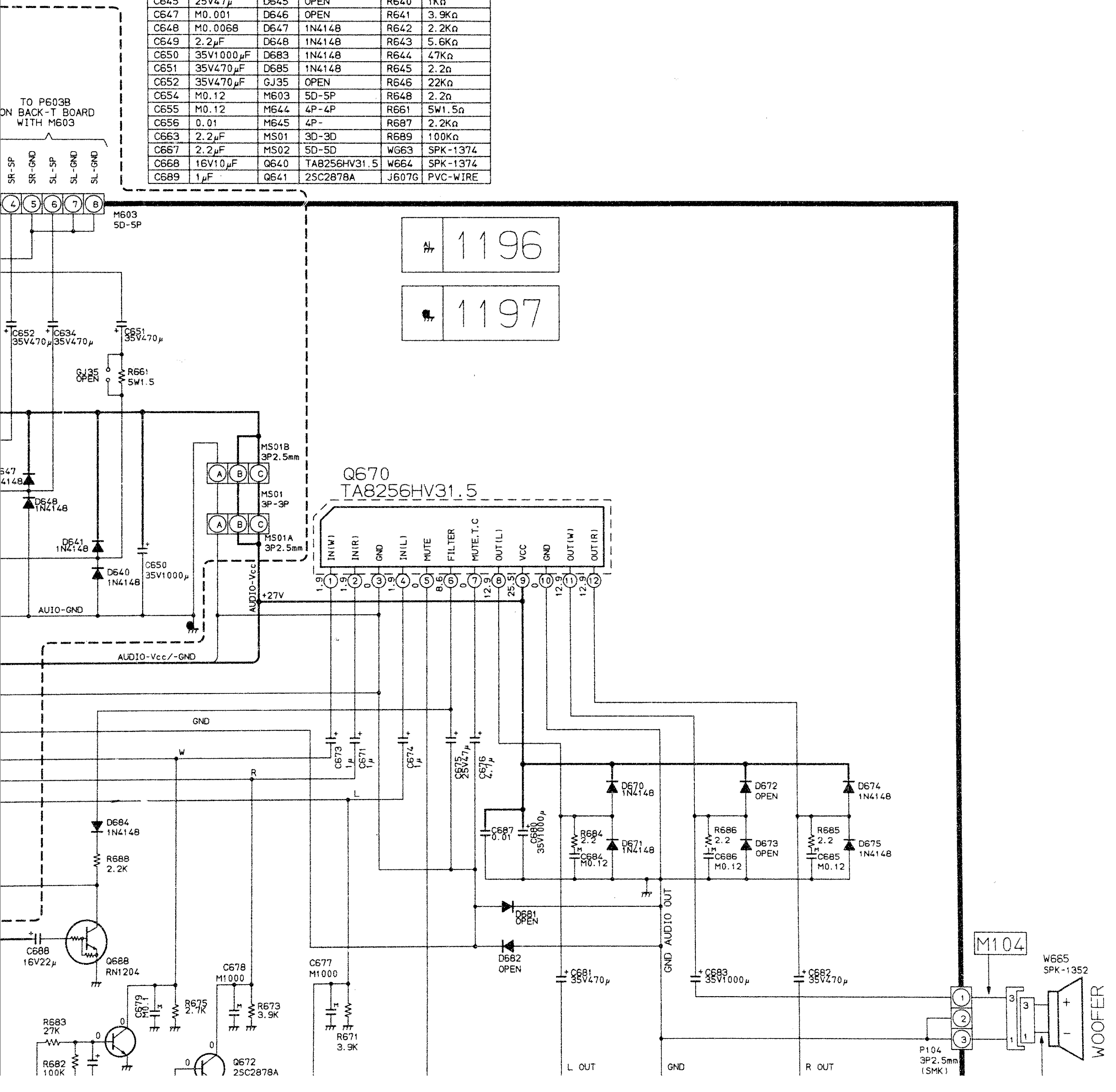
M=1,000,000

, all capacitor values less than 1 are expres-
n pF.

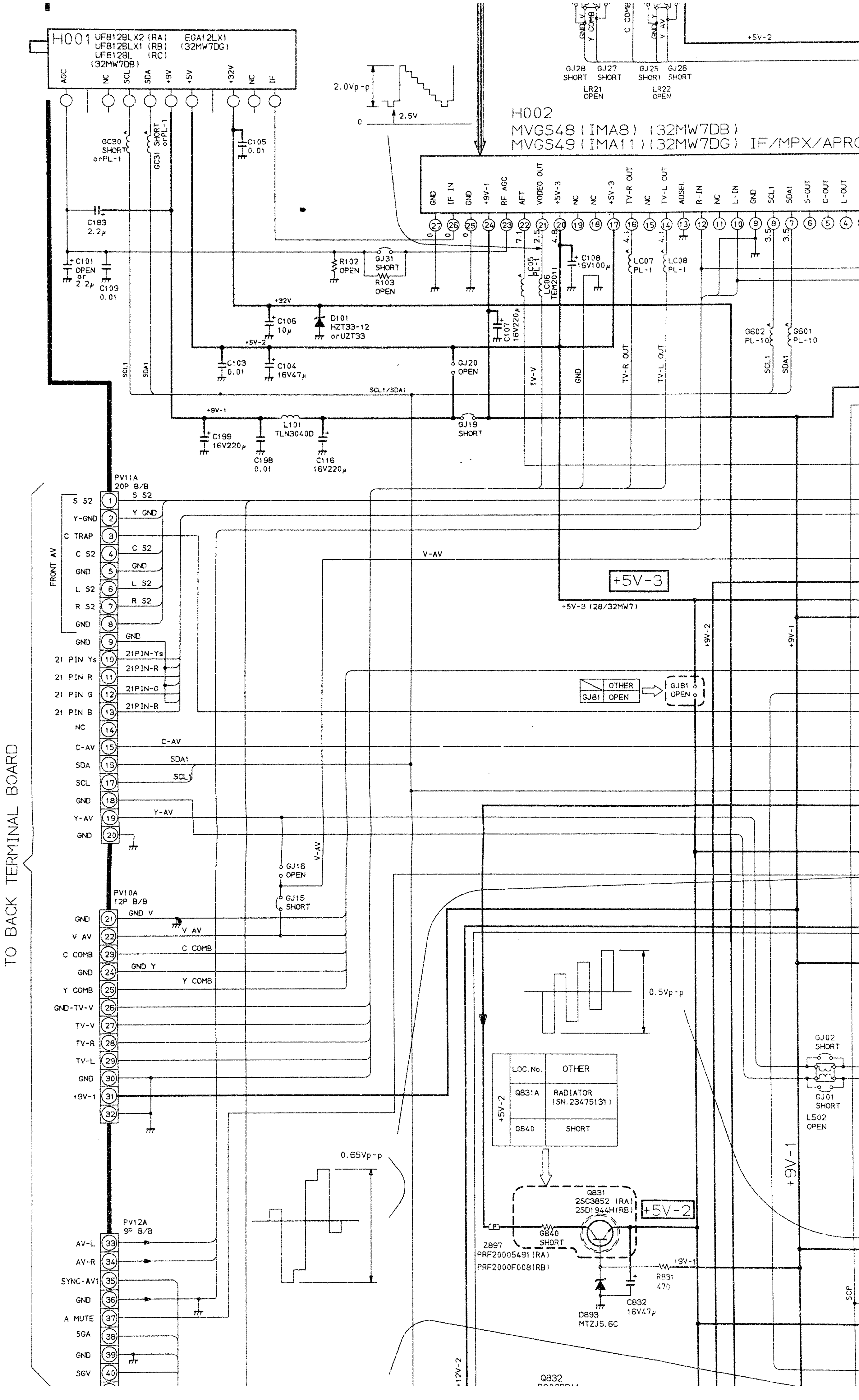
all inductor values more than 1 are expres-
n H.

A PARTS
NGED TO OPEN
V7DD

LOC	DESCRIPT	LOC	DESCRIPT	LOC	DESCRIPT
C630	M0.001	D620	1N4148	Q642	2SC2878A
C631	1μF	D621	1N4148	Q643	2SC2878A
C632	4.7μF	D622	1N4148	R630	1KΩ
C633	M0.12	D640	1N4148	R631	5.6KΩ
C634	35V470μF	D641	1N4148	R632	22KΩ
C641	1μF	D642	1N4148	R633	22KΩ
C644	1μF	D643	1N4148	R634	2.2Ω
C645	25V47μ	D645	OPEN	R640	1KΩ
C647	M0.001	D646	OPEN	R641	3.9KΩ
C648	M0.0068	D647	1N4148	R642	2.2KΩ
C649	2.2μF	D648	1N4148	R643	5.6KΩ
C650	35V1000μF	D683	1N4148	R644	47KΩ
C651	35V470μF	D685	1N4148	R645	2.2Ω
C652	35V470μF	GJ35	OPEN	R646	22KΩ
C654	M0.12	M603	5D-5P	R648	2.2Ω
C655	M0.12	M644	4P-4P	R661	5W1.5Ω
C656	0.01	M645	4P-	R687	2.2KΩ
C663	2.2μF	MS01	3D-3D	R689	100KΩ
C667	2.2μF	MS02	5D-5D	WG63	SPK-1374
C668	16V10μF	Q640	TA8256HV31.5	W664	SPK-1374
C689	1μF	Q641	2SC2878A	J607G	PVC-WIRE



TO P603B
ON BACK-T BOARD
WITH M603
SR-SP
SR-GND
SL-SP
SL-GND
SL-GND
4 5 6 7 8
M603
5D-5P
1196
1197
C652
35V470μ
C634
35V470μ
C651
35V470μ
GJ35
OPEN
R661
5W1.5
MS01B
3P2.5mm
A B C
MS01
3P-3P
A B C
MS01A
3P2.5mm
D647
1N4148
D648
1N4148
D641
1N4148
D640
1N4148
C650
35V1000μ
AUIO-GND
AUDIO-Vcc
+27V
AUDIO-Vcc/-GND
Q670
TA8256HV31.5
IN(W)
IN(R)
GND
IN(L)
MUTE
FILTER
MUTE,T.C
OUT(L)
VCC
GND
OUT(W)
OUT(R)
1.9
1.9
0
1.9
0
8.6
0
12.9
25.5
0
12.9
12.9
1 2 3 4 5 6 7 8 9 10 11 12
GND
W
R
L
C673
1μ
C671
1μ
C674
1μ
C675
25V47μ
C676
4.7μ
D670
1N4148
D672
OPEN
D674
1N4148
C687
0.01
C680
35V1000μ
R684
2.2
C684
M0.12
D671
1N4148
R686
2.2
C686
M0.12
D673
OPEN
R685
2.2
C685
M0.12
D675
1N4148
D681
OPEN
D682
OPEN
GND AUDIO OUT
D684
1N4148
R688
2.2K
C688
16V22μ
Q688
RN1204
C679
M0.1
R675
2.7K
C678
M1000
R673
3.9K
C677
M1000
R671
3.9K
R683
27K
R682
100K
0
0
0
Q672
2SC2878A
C681
35V470μ
C683
35V1000μ
C682
35V470μ
L OUT
GND
R OUT
M104
W665
SPK-1352
WOOFER
P104
3P2.5mm
(SMK)
1 2 3
3
1
+
−


H001 UF812BLX2 (RA) UF812BLX1 (RB) UF812BL (RC) (32MW7DB) EGA12LX1 (32MW7DG)
AGC
NC
SCL
SDA
+9V
+5V
+32V
NC
IF
GC30 SHORT orPL-1
GC31 SHORT orPL-1
C105 0.01
C183 2.2μ
C101 OPEN or 2.2μ
C109 0.01
2.0Vp-p
2.5V
0
H002
MVGS48 (IMA8) (32MW7DB)
MVGS49 (IMA11) (32MW7DG) IF/MPX/APRO
GND
IF IN
GND
+9V-1
RF AGC
AFT
VODEO OUT
+5V-3
NC
NC
+5V-3
TV-R OUT
NC
TV-L OUT
ADSEL
R-IN
NC
L-IN
GND
SCL1
SDA1
S-OUT
C-OUT
L-OUT
GND V
Y COMB
C COMB
GND Y
V AV
GJ28 SHORT
GJ27 SHORT
GJ25 SHORT
GJ26 SHORT
LR21 OPEN
LR22 OPEN
+5V-2
R102 OPEN
GJ31 SHORT
R103 OPEN
LC05 PL-1
LC06 TEM2011
C108 16V100μ
LC07 PL-1
LC08 PL-1
+32V
C106 10μ
D101 HZT33-12 orUZT33
C107 16V220μ
G602 PL-10
G601 PL-10
+5V-2
C103 0.01
C104 16V47μ
GJ20 OPEN
SCL1
SDA1
SCL1/SDA1
TV-V
GND
TV-R OUT
TV-L OUT
+9V-1
C199 16V220μ
C198 0.01
L101 TLN3040D
C116 16V220μ
GJ19 SHORT
PV11A 20P B/B
S S2
Y-GND
C TRAP
C S2
GND
L S2
R S2
GND
GND
21 PIN Ys
21 PIN R
21 PIN G
21 PIN B
NC
C-AV
SDA
SCL
GND
Y-AV
GND
FRONT AV
Y GND
C S2
GND
L S2
R S2
21PIN-Ys
21PIN-R
21PIN-G
21PIN-B
C-AV
SDA1
SCL1
Y-AV
V-AV
+5V-3
+5V-3 (28/32MW7)
+9V-2
+9V-1
GJ81 OTHER OPEN
GJ81 OPEN
GJ16 OPEN
GJ15 SHORT
V-AV
TO BACK TERMINAL BOARD
PV10A 12P B/B
GND
V AV
C COMB
GND
Y COMB
GND-TV-V
TV-V
TV-R
TV-L
GND
+9V-1
GND V
V AV
C COMB
GND Y
Y COMB
0.5Vp-p
LOC. No. OTHER
+5V-2
Q831A RADIATOR (SN. 23475131)
G840 SHORT
0.65Vp-p
GJ02 SHORT
GJ01 SHORT
L502 OPEN
+9V-1
Q831 2SC3852 (RA) 2SD1944H (RB)
+5V-2
G840 SHORT
Z897 PRF20005491 (RA) PRF2000F008 (RB)
+9V-1
R831 470
C832 16V47μ
D893 MTZJ5.6C
SCP
PV12A 9P B/B
AV-L
AV-R
SYNC-AV1
GND
A MUTE
SGA
GND
SGV
+12V-2
Q832
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
15
17
18
19
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21
22
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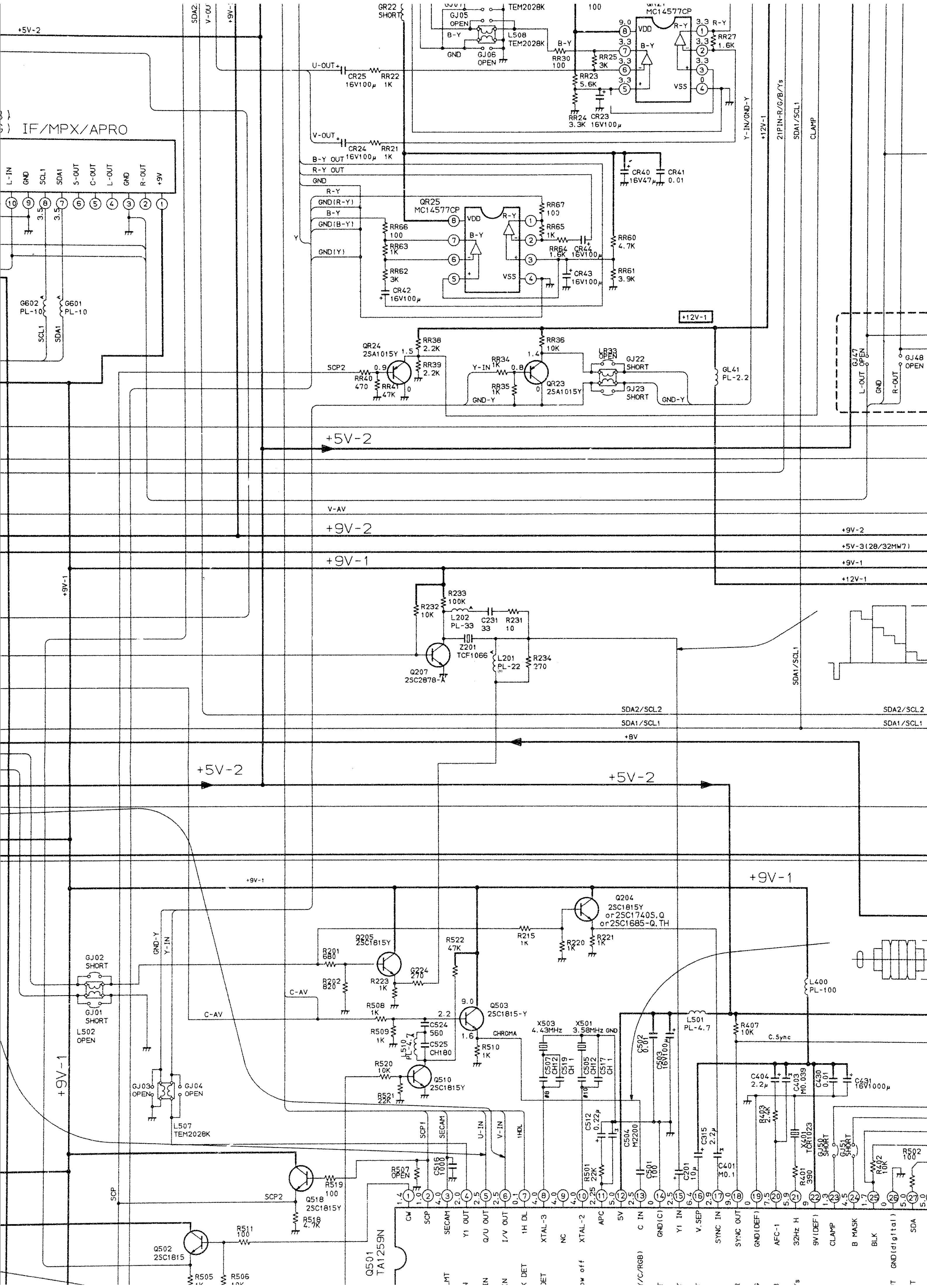
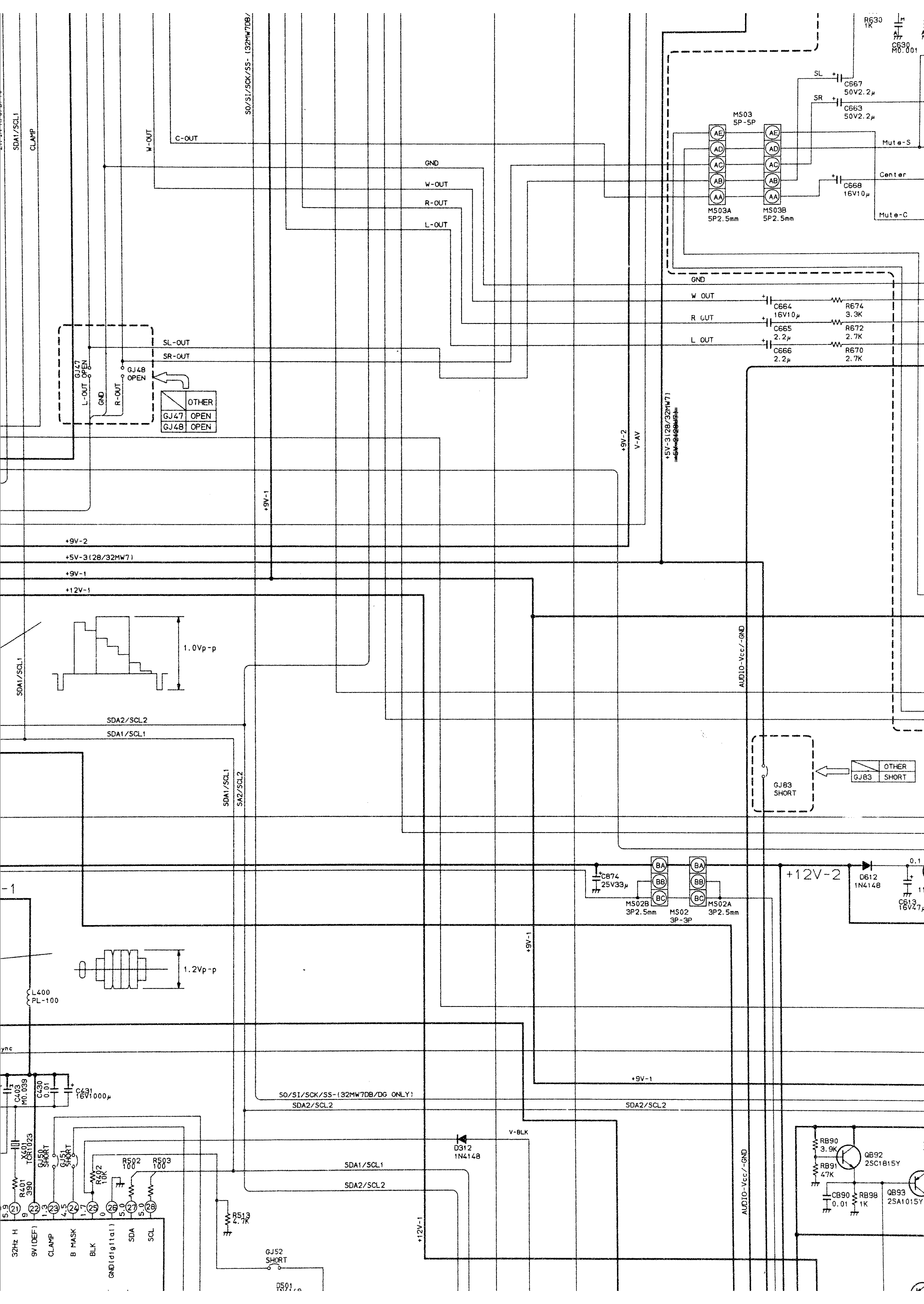
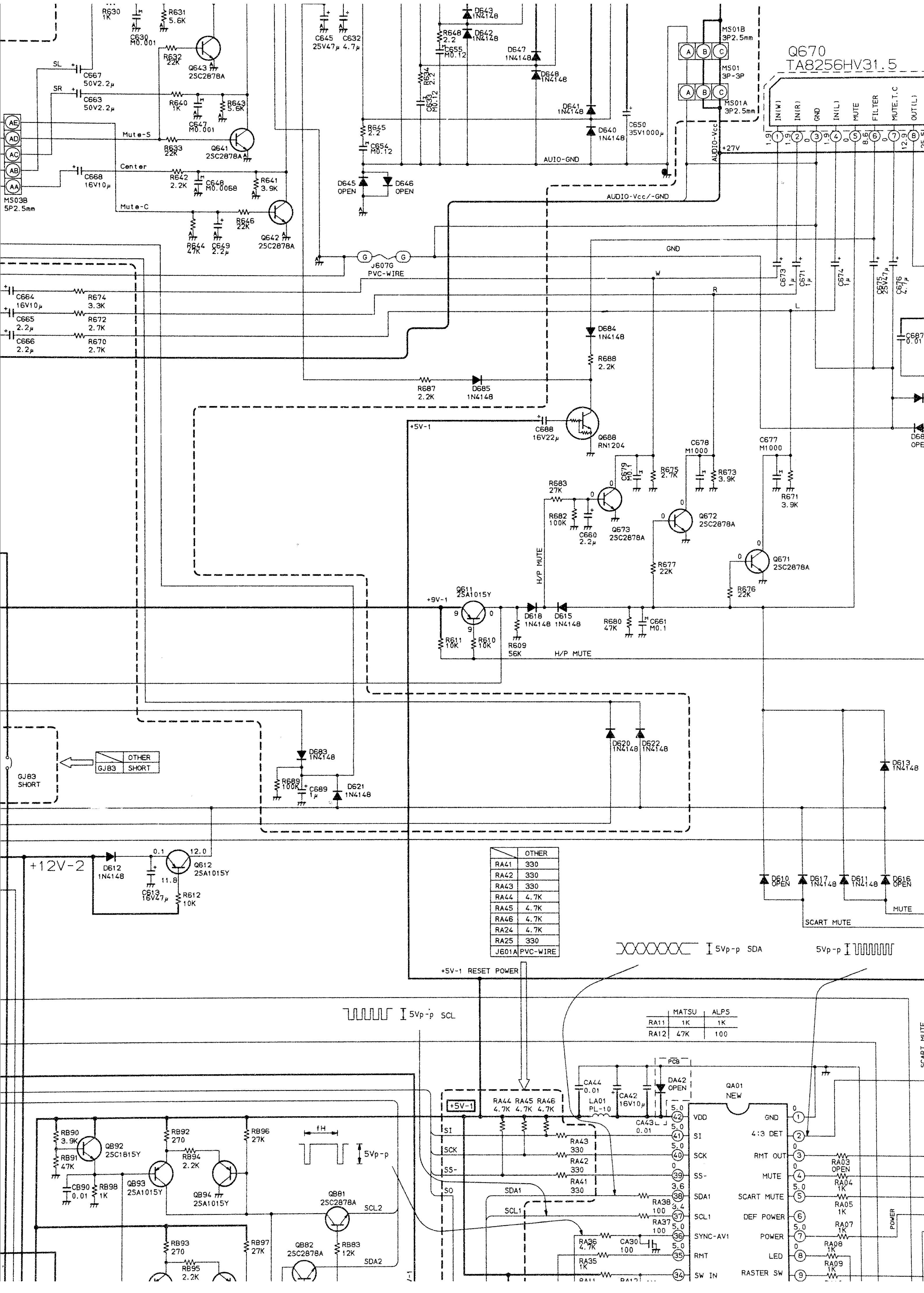
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
0
0
0
7.1
2.5
4.8
4.1
4.1
3.5
3.5


IF/MPX/APRO
L-IN
GND
SCL1
SDA1
S-OUT
C-OUT
L-OUT
GND
R-OUT
+9V
G602 PL-10
G601 PL-10
+5V-2
U-OUT
CR25 16V100μ
RR22 1K
V-OUT
CR24 16V100μ
RR21 1K
B-Y OUT
R-Y OUT
GND
R-Y
GND(R-Y)
B-Y
GND(B-Y)
GND(Y)
Y
GR22 SHORT
GJ05 OPEN
GJ06 OPEN
L508 TEM2028K
TEM2028K
MC14577CP
VDD
VSS
RR30 100
RR25 3K
RR23 5.6K
RR24 3.3K
CR23 16V100μ
RR27 1.6K
QR25 MC14577CP
RR66 100
RR63 1K
RR62 3K
CR42 16V100μ
RR67 100
RR65 1K
RR64 1.6K
CR44 16V100μ
CR43 16V100μ
RR60 4.7K
RR61 3.9K
CR40 16V47μ
CR41 0.01
Y-IN/GND-Y
+12V-1
21PIN-R/G/B/Ys
SDA1/SCL1
CLAMP
QR24 2SA1015Y
SCP2
RR40 470
RR41 47K
RR38 2.2K
RR39 2.2K
Y-IN
RR34 1K
RR35 1K
GND-Y
RR36 10K
QR23 2SA1015Y
LR33 OPEN
GJ22 SHORT
GJ23 SHORT
GL41 PL-2.2
GJ47 OPEN
GJ48 OPEN
L-OUT
R-OUT
+5V-2
V-AV
+9V-2
+9V-1
+5V-3(28/32MW7)
+12V-1
R233 100K
R232 10K
L202 PL-33
C231 33
R231 10
Z201 TCF1066
L201 PL-22
R234 270
Q207 2SC2878-A
SDA2/SCL2
SDA1/SCL1
+8V
+5V-2
+9V-1
Q204 2SC1815Y or2SC1740S,Q or2SC1685-Q,TH
R215 1K
R220 1K
R221 1K
Q205 2SC1815Y
R201 680
R202 820
R223 1K
G224 270
R522 47K
GND-Y
Y-IN
GJ02 SHORT
GJ01 SHORT
L502 OPEN
C-AV
R508 1K
R509 1K
L510 PL-4.7
C524 560
C525 CH180
Q503 2SC1815-Y
CHROMA
R510 1K
R520 10K
R521 22K
Q510 2SC1815Y
GJ03 OPEN
GJ04 OPEN
L507 TEM2028K
X503 4.43MHz
X501 3.58MHz
C507 CH12
C519 CH1
C505 CH12
C517 CH1
C502 0.01
C503 16V100μ
L501 PL-4.7
R407 10K
C.Sync
L400 PL-100
C404 2.2μ
C403 M0.039
C430 0.01
C431 16V1000μ
C512 0.22μ
C504 M2200
R501 22K
C501 100
C201 10μ
C315 2.2μ
C401 M0.1
R403 2.4K
X401 TCR1023
R401 390
GJ50 SHORT
GJ51 SHORT
R402 10K
R502 100
SCP1
SECAM
U-IN
V-IN
1HDL
R507 OPEN
C516 1000
R519 100
Q518 2SC1815Y
R518 4.7K
SCP
SCP2
Q502 2SC1815
R511 100
R505 1K
R506 10K
Q501 TA1259N
CW
SCP
SECAM
Y1 OUT
Q/U OUT
I/V OUT
1H DL
XTAL-3
NC
XTAL-2
APC
5V
C IN
GND(C)
Y1 IN
V.SEP
SYNC IN
SYNC OUT
GND(DEF)
AFC-1
32Hz H
9V(DEF)
CLAMP
B MASK
BLK
GND(digital)
SDA


SDA1/SCL1
CLAMP
SO/SI/SCK/SS- (32MW7DB/
W-OUT
C-OUT
GND
W-OUT
R-OUT
L-OUT
R630
1K
C630
M0.001
SL
C667
50V2.2μ
SR
C663
50V2.2μ
M503
5P-5P
AE
AD
AC
AB
AA
MS03A
5P2.5mm
MS03B
5P2.5mm
Mute-S
Center
C668
16V10μ
Mute-C
GND
W OUT
C664
16V10μ
R674
3.3K
R OUT
C665
2.2μ
R672
2.7K
L OUT
C666
2.2μ
R670
2.7K
SL-OUT
SR-OUT
GJ47
OPEN
GJ48
OPEN
L-OUT
GND
R-OUT
OTHER
GJ47 OPEN
GJ48 OPEN
+9V-2
V-AV
+5V-3(28/32MW7)
~~+5V-2(28MW7)~~
+9V-1
+9V-2
+5V-3(28/32MW7)
+9V-1
+12V-1
1.0Vp-p
SDA1/SCL1
AUDIO-Vcc/-GND
SDA2/SCL2
SDA1/SCL1
SDA1/SCL1
SA2/SCL2
GJ83
SHORT
OTHER
GJ83 SHORT
-1
C874
25V33μ
BA
BB
BC
MS02B
3P2.5mm
MS02
3P-3P
MS02A
3P2.5mm
+12V-2
D612
1N4148
0.1
C613
16V47μ
+9V-1
1.2Vp-p
L400
PL-100
ync
C403
M0.039
C430
0.01
C431
16V1000μ
+9V-1
SO/SI/SCK/SS-(32MW7DB/DG ONLY)
SDA2/SCL2
SDA2/SCL2
X401
TCR1023
GJ50
SHORT
GJ51
SHORT
R401
390
R402
10K
R502
100
R503
100
D312
1N4148
V-BLK
SDA1/SCL1
SDA2/SCL2
R513
4.7K
+12V-1
AUDIO-Vcc/-GND
RB90
3.9K
RB91
47K
QB92
2SC1815Y
CB90
0.01
RB98
1K
QB93
2SA1015Y
5.9
9
1.3
4.5
1.7
0
5.0
5.0
21
22
23
24
25
26
27
28
32Hz H
9V(DEF)
CLAMP
B MASK
BLK
GND(digital)
SDA
SCL
GJ52
SHORT
D501
1N41..

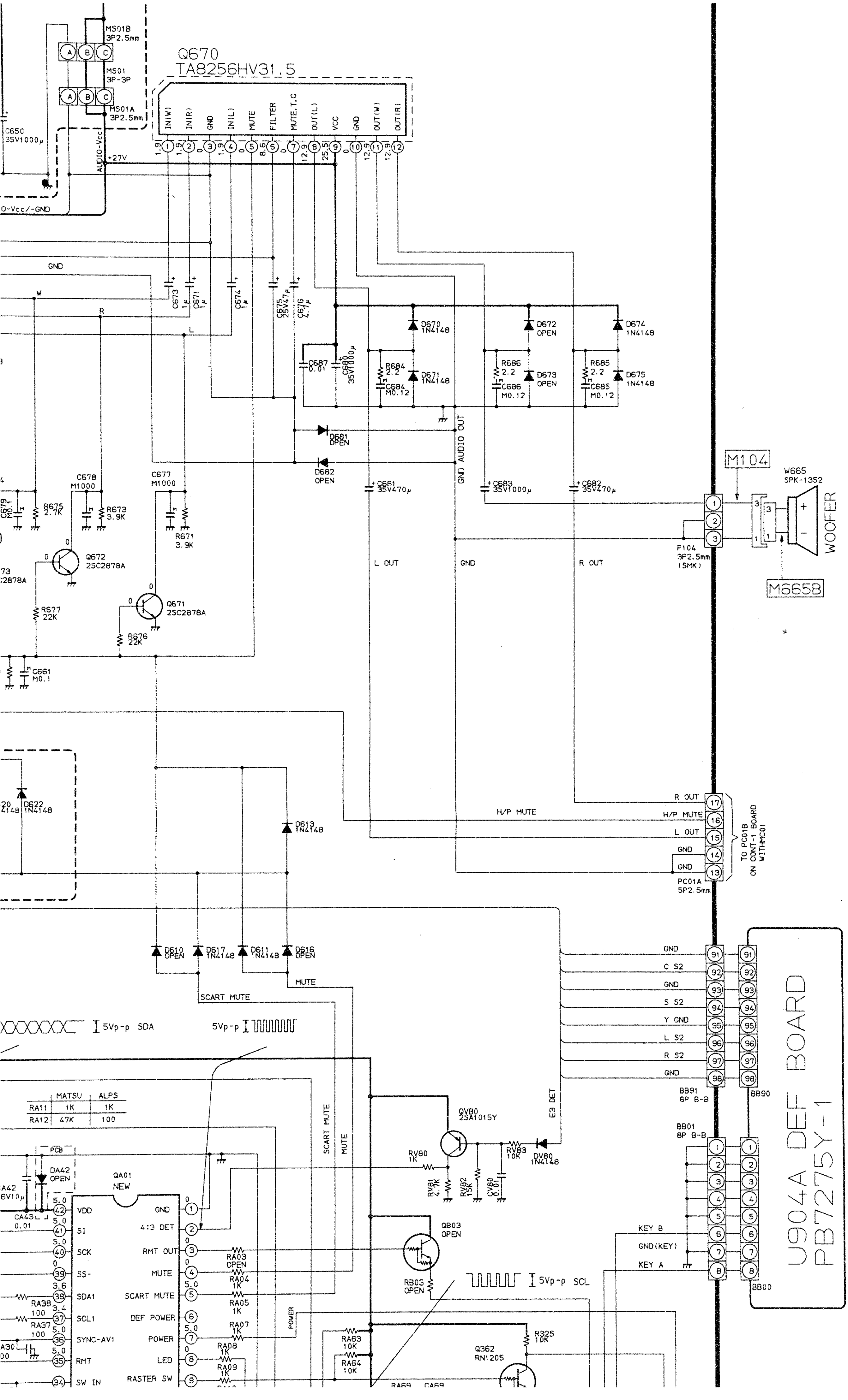


Q670
TA8256HV31.5
IN(W)
IN(R)
GND
IN(L)
MUTE
FILTER
MUTE.T.C
OUT(L)
+27V
AUDIO-Vcc
AUIO-GND
AUDIO-Vcc/-GND
GND
W
R
L
MS01B 3P2.5mm
MS01 3P-3P
MS01A 3P2.5mm
MS03B 5P2.5mm
AE
AD
AC
AB
AA
SL
SR
Mute-S
Center
Mute-C
C667 50V2.2µ
C663 50V2.2µ
C668 16V10µ
R630 1K
R631 5.6K
C630 M0.001
R632 22K
Q643 2SC2878A
R640 1K
C647 M0.001
R643 5.6K
R633 22K
Q641 2SC2878A
R642 2.2K
C648 M0.0068
R641 3.9K
R644 47K
C649 2.2µ
R646 22K
Q642 2SC2878A
C645 25V47µ
C632 4.7µ
D643 1N4148
R648 2.2
D642 1N4148
C655 M0.12
R634 2.2
C633 M0.12
D647 1N4148
D648 1N4148
D641 1N4148
D640 1N4148
C650 35V1000µ
R645 2.2
C654 M0.12
D645 OPEN
D646 OPEN
J607G PVC-WIRE
C673 1µ
C671 1µ
C674 1µ
C675 25V47µ
C676 4.7µ
C687 0.01
C664 16V10µ
R674 3.3K
C665 2.2µ
R672 2.7K
C666 2.2µ
R670 2.7K
D684 1N4148
R688 2.2K
R687 2.2K
D685 1N4148
+5V-1
C688 16V22µ
Q688 RN1204
C679 M0.1
R675 2.7K
C678 M1000
R673 3.9K
C677 M1000
R671 3.9K
R683 27K
R682 100K
C660 2.2µ
Q673 2SC2878A
Q672 2SC2878A
Q671 2SC2878A
R677 22K
R676 22K
H/P MUTE
+9V-1
Q611 2SA1015Y
R611 10K
R610 10K
D618 1N4148
D615 1N4148
R609 56K
R680 47K
C661 M0.1
D620 1N4148
D622 1N4148
D613 1N4148
GJ83 SHORT
D683 1N4148
R689 100K
C689 1µ
D621 1N4148
+12V-2
D612 1N4148
Q612 2SA1015Y
C613 16V47µ
R612 10K
0.1
12.0
11.8
D610 OPEN
D617 1N4148
D611 1N4148
D616 OPEN
MUTE
SCART MUTE
5Vp-p SDA
5Vp-p
+5V-1 RESET POWER
5Vp-p SCL
RB90 3.9K
RB91 47K
QB92 2SC1815Y
CB90 0.01
RB98 1K
RB92 270
RB94 2.2K
RB96 27K
QB93 2SA1015Y
QB94 2SA1015Y
fH
5Vp-p
QB81 2SC2878A
SCL2
SDA2
QB82 2SC2878A
RB83 12K
RB93 270
RB95 2.2K
RB97 27K
+5V-1
RA44 4.7K
RA45 4.7K
RA46 4.7K
SI
SCK
SS-
SO
SDA1
SCL1
RA43 330
RA42 330
RA41 330
RA38 100
RA37 100
RA36 4.7K
CA30 100
RA35 1K
CA44 0.01
LA01 PL-10
CA42 16V10µ
CA43 0.01
PCB
DA42 OPEN
QA01 NEW
VDD
SI
SCK
SS-
SDA1
SCL1
SYNC-AV1
RMT
SW IN
GND
4:3 DET
RMT OUT
MUTE
SCART MUTE
DEF POWER
POWER
LED
RASTER SW
RA03 OPEN
RA04 1K
RA05 1K
RA07 1K
RA08 1K
RA09 1K
POWER
SCART MUTE

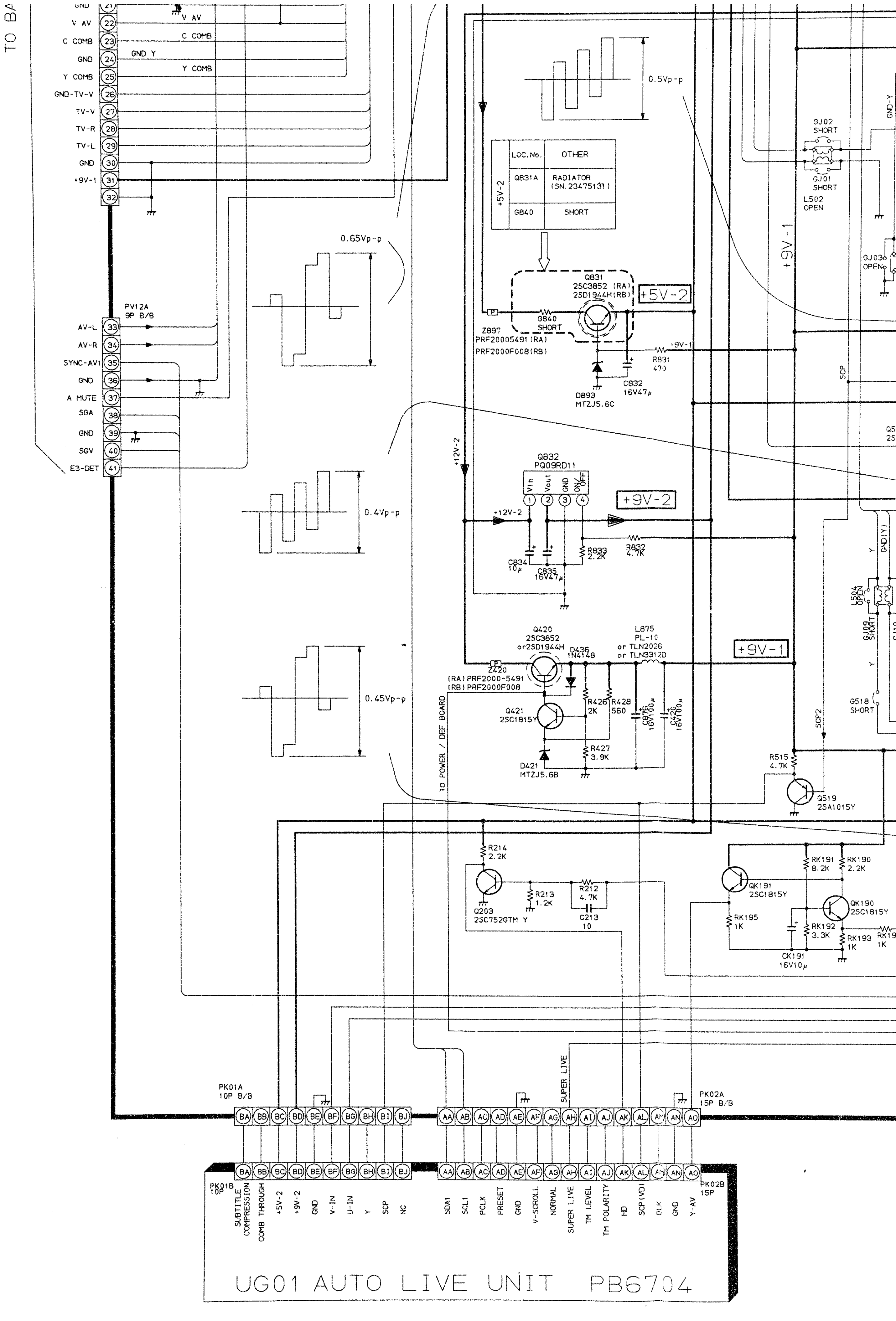
	OTHER
GJ83	SHORT

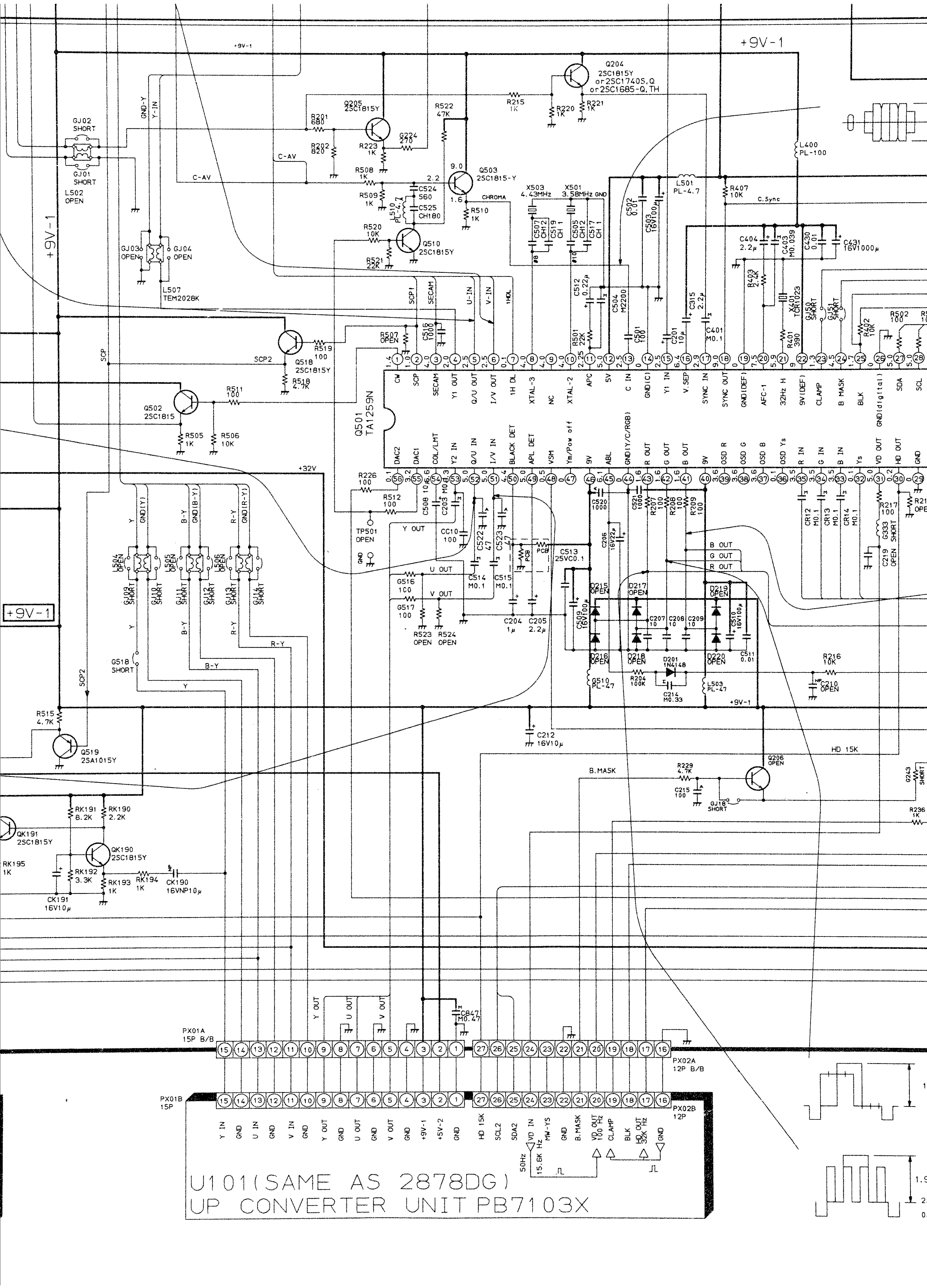
	OTHER
RA41	330
RA42	330
RA43	330
RA44	4.7K
RA45	4.7K
RA46	4.7K
RA24	4.7K
RA25	330
J601A	PVC-WIRE

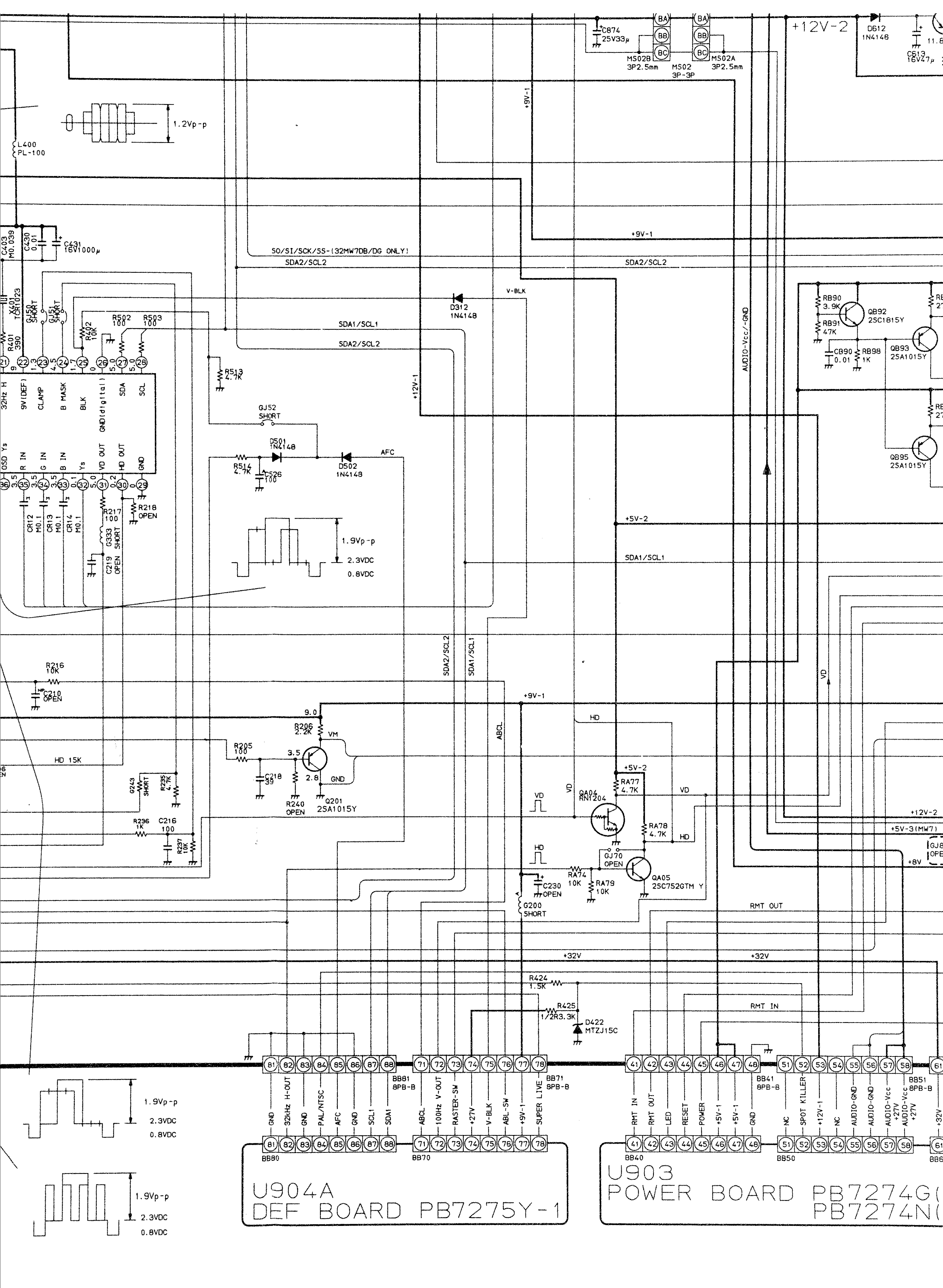
	MATSU	ALPS
RA11	1K	1K
RA12	47K	100

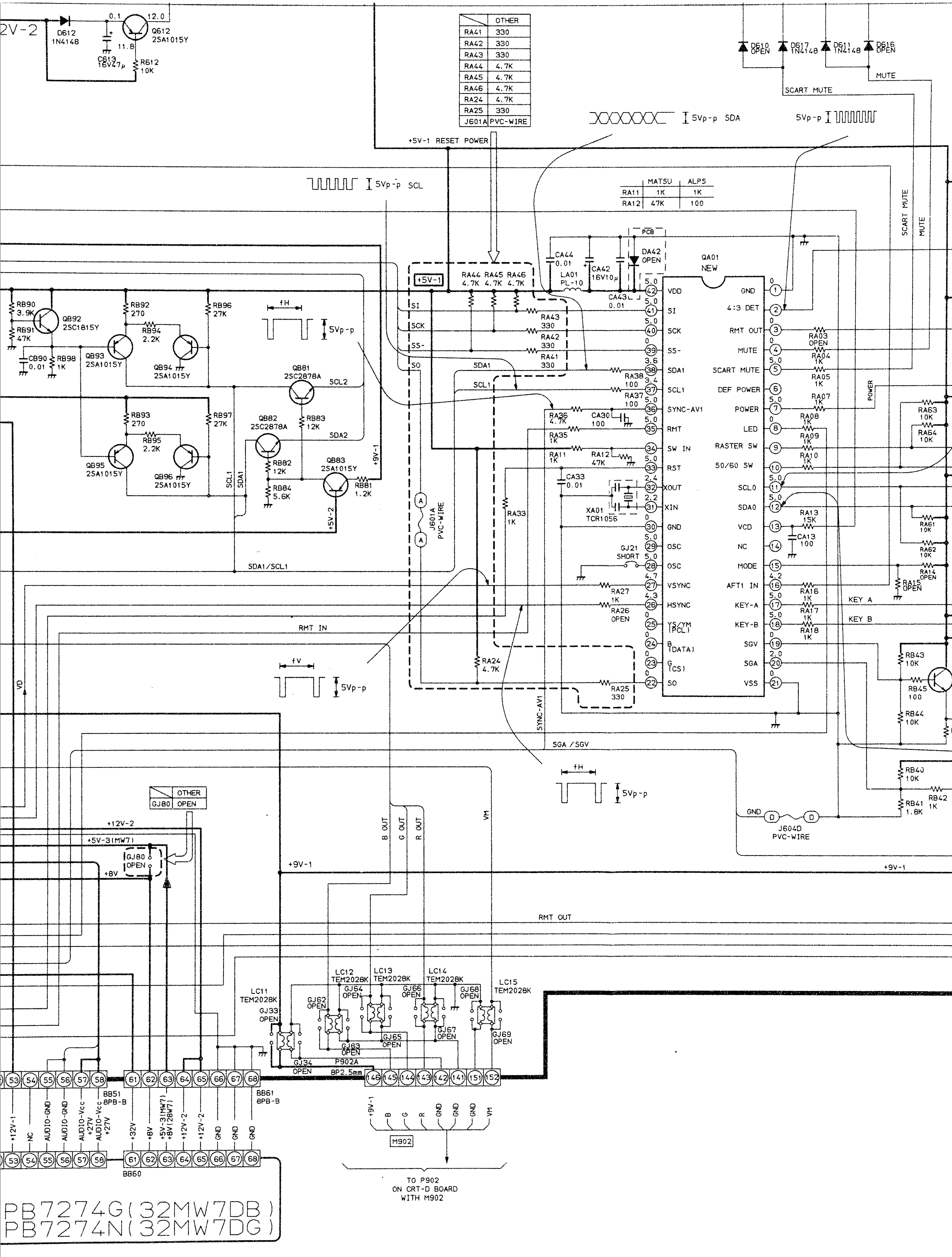

Q670
TA8256HV31.5
MS01B
3P2.5mm
MS01
3P-3P
MS01A
3P2.5mm
C650
35V1000μ
AUDIO-Vcc
+27V
O-Vcc/-GND
IN(W)
IN(R)
GND
IN(L)
MUTE
FILTER
MUTE.T.C
OUT(L)
VCC
GND
OUT(W)
OUT(R)
1.9
1.9
0
1.9
0
8.6
0
12.9
25.5
0
12.9
12.9
GND
W
R
L
C673 1μ
C671 1μ
C674 1μ
C675 25V47μ
C676 4.7μ
D670 1N4148
D671 1N4148
D672 OPEN
D673 OPEN
D674 1N4148
D675 1N4148
C687 0.01
C680 35V1000μ
R684 2.2
C684 M0.12
R686 2.2
C686 M0.12
R685 2.2
C685 M0.12
D681 OPEN
D682 OPEN
GND AUDIO OUT
C681 35V470μ
C683 35V1000μ
C682 35V470μ
M104
W665
SPK-1352
WOOFER
P104
3P2.5mm
(SMK)
M665B
L OUT
GND
R OUT
C679 M0.1
R675 2.7K
C678 M1000
R673 3.9K
C677 M1000
R671 3.9K
Q672 2SC2878A
Q671 2SC2878A
R677 22K
R676 22K
C661 M0.1
D620 1N4148
D622 1N4148
D613 1N4148
R OUT
H/P MUTE
H/P MUTE
L OUT
GND
GND
PC01A
5P2.5mm
TO PC01B ON CONT-1 BOARD WITH MC01
D610 OPEN
D617 1N4148
D611 1N4148
D616 OPEN
MUTE
SCART MUTE
5Vp-p SDA
5Vp-p
GND
C S2
GND
S S2
Y GND
L S2
R S2
GND
BB91
8P B-B
BB90
U904A DEF BOARD
PB7275Y-1
E3 DET
SCART MUTE
MUTE
QV80 2SA1015Y
RV80 1K
RV81 4.7K
RV82 15K
CV80 0.01
RV83 10K
DV80 1N4148
BB01
8P B-B
KEY B
GND(KEY)
KEY A
BB00
PCB
DA42 OPEN
CA42 6V10μ
CA43 0.01
QA01 NEW
VDD
SI
SCK
SS-
SDA1
SCL1
SYNC-AV1
RMT
SW IN
GND
4:3 DET
RMT OUT
MUTE
SCART MUTE
DEF POWER
POWER
LED
RASTER SW
5.0
5.0
5.0
0
3.6
3.4
5.0
5.0
RA38 100
RA37 100
RA30
RA03 OPEN
RA04 1K
RA05 1K
RA07 1K
RA08 1K
RA09 1K
QB03 OPEN
RB03 OPEN
5Vp-p SCL
POWER
RA63 10K
RA64 10K
R325 10K
Q362 RN1205
RA69
CA69

	MATSU	ALPS
RA11	1K	1K
RA12	47K	100


TO BA
GND 21
V AV 22
C COMB 23
GND 24
Y COMB 25
GND-TV-V 26
TV-V 27
TV-R 28
TV-L 29
GND 30
+9V-1 31
32
V AV
C COMB
GND Y
Y COMB
0.5Vp-p
0.65Vp-p
0.4Vp-p
0.45Vp-p
PV12A
9P B/B
AV-L 33
AV-R 34
SYNC-AV1 35
GND 36
A MUTE 37
SGA 38
GND 39
SGV 40
E3-DET 41
+5V-2
LOC.No.
OTHER
Q831A
RADIATOR (SN.23475131)
G840
SHORT
Q831
2SC3852 (RA)
2SD1944H(RB)
+5V-2
G840
SHORT
Z897
PRF20005491(RA)
PRF2000F008(RB)
+9V-1
R831
470
C832
16V47μ
D893
MTZJ5.6C
+12V-2
Q832
PQ09RD11
Vin
Vout
GND
ON/OFF
+9V-2
+12V-2
C834
10μ
C835
16V47μ
R833
2.2K
R832
4.7K
Q420
2SC3852
or2SD1944H
D436
1N4148
L875
PL-10
or TLN2026
or TLN3312D
+9V-1
Z420
(RA) PRF2000-5491
(RB) PRF2000F008
Q421
2SC1815Y
R426
2K
R428
560
C876
16V100μ
C420
16V100μ
R427
3.9K
D421
MTZJ5.6B
TO POWER / DEF BOARD
GJ02
SHORT
GJ01
SHORT
L502
OPEN
GND-Y
+9V-1
GJ036
OPEN
SCP
Q5
2S
Y
GND(Y)
L504
OPEN
GJ09
SHORT
Y
G518
SHORT
SCP2
R515
4.7K
Q519
2SA1015Y
R214
2.2K
Q203
2SC752GTM Y
R213
1.2K
R212
4.7K
C213
10
RK191
8.2K
RK190
2.2K
QK191
2SC1815Y
QK190
2SC1815Y
RK195
1K
RK192
3.3K
RK193
1K
RK19
1K
CK191
16V10μ
PK01A
10P B/B
SUPER LIVE
PK02A
15P B/B
BA BB BC BD BE BF BG BH BI BJ
AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO
PK01B
10P
SUBTITLE COMPRESSION
COMB THROUGH
+5V-2
+9V-2
GND
V-IN
U-IN
Y
SCP
NC
SDA1
SCL1
PCLK
PRESET
GND
V-SCROLL
NORMAL
SUPER LIVE
TM LEVEL
TM POLARITY
HD
SCP(VD)
BLK
GND
Y-AV
PK02B
15P
UG01 AUTO LIVE UNIT PB6704


+9V-1
Q204
2SC1815Y
or2SC1740S,Q
or2SC1685-Q,TH
R215 1K
R220 1K
R221 1K
Q205 2SC1815Y
R201 680
R202 820
R223 1K
G224 270
R522 47K
GJ02 SHORT
GJ01 SHORT
L502 OPEN
GND-Y
Y-IN
C-AV
R508 1K
R509 1K
9.0
2.2
1.6
Q503 2SC1815-Y
C524 560
C525 CH180
L510 PL-4.7
CHROMA
R510 1K
R520 10K
R521 22K
Q510 2SC1815Y
GJ03 OPEN
GJ04 OPEN
L507 TEM2028K
X503 4.43MHz
X501 3.58MHz
GND
C507 CH12
C519 CH 1
C505 CH12
C517 CH 1
C512 0.22μ
R501 22K
C504 M2200
C501 100
C502 0.01
C503 16V100μ
L501 PL-4.7
R407 10K
C.Sync
L400 PL-100
C404 2.2μ
C403 M0.039
C430 0.01
C431 16V1000μ
R403 2.4K
X401 TCR1023
C315 2.2μ
C201 10μ
C401 M0.1
R401 390
GJ50 SHORT
GJ51 SHORT
R402 10K
R502 100
SCP1
SECAM
U-IN
V-IN
1HDL
R507 OPEN
C516 1000
Q518 2SC1815Y
R519 100
R518 4.7K
SCP
SCP2
Q502 2SC1815
R511 100
R505 1K
R506 10K
Q501 TA1259N
CW
SCP
SECAM
Y1 OUT
Q/U OUT
I/V OUT
1H DL
XTAL-3
NC
XTAL-2
APC
5V
C IN
GND(C)
Y1 IN
V.SEP
SYNC IN
SYNC OUT
GND(DEF)
AFC-1
32Hz H
9V(DEF)
CLAMP
B MASK
BLK
GND(digital)
SDA
SCL
DAC2
DAC1
COL/LMT
Y2 IN
Q/U IN
I/V IN
BLACK DET
APL DET
VSM
Ym/Pow off
9V
ABL
GND(Y/C/RGB)
R OUT
G OUT
B OUT
9V
OSD R
OSD G
OSD B
OSD Ys
R IN
G IN
B IN
Ys
VD OUT
HD OUT
GND
+32V
R226 100
R512 100
TP501 OPEN
GND
C508 10
C203 M0.1
Y OUT
CC10 100
C522 47
C523 47
PCB
C513 25VC0.1
U OUT
V OUT
G516 100
G517 100
C514 M0.1
C515 M0.1
R523 OPEN
R524 OPEN
C204 1μ
C205 2.2μ
C520 1000
C521 100
C206 16V22μ
R207 100
R208 100
R209 100
B OUT
G OUT
R OUT
D215 OPEN
D217 OPEN
D219 OPEN
C509 16V100μ
C510 16V100μ
C207 10
C208 10
C209 10
D216 OPEN
D218 OPEN
D220 OPEN
C511 0.01
D201 1N4148
R204 100K
C214 M0.33
G510 PL-47
L503 PL-47
+9V-1
R216 10K
C210 OPEN
CR12 M0.1
CR13 M0.1
CR14 M0.1
R217 100
G333 SHORT
C219 OPEN
GND(Y)
GND(B-Y)
GND(R-Y)
Y
B-Y
R-Y
L504 OPEN
L505 OPEN
L506 OPEN
GJ09 SHORT
GJ10 SHORT
GJ11 SHORT
GJ12 SHORT
GJ13 SHORT
GJ14 SHORT
G518 SHORT
R515 4.7K
Q519 2SA1015Y
C212 16V10μ
HD 15K
B.MASK
R229 4.7K
C215 100
GJ18 SHORT
Q206 OPEN
G243 SHORT
R236 1K
RK191 8.2K
RK190 2.2K
QK191 2SC1815Y
QK190 2SC1815Y
RK195 1K
RK192 3.3K
RK193 1K
RK194 1K
CK190 16VNP10μ
CK191 16V10μ
C847 M0.47
PX01A 15P B/B
PX02A 12P B/B
PX01B 15P
PX02B 12P
Y IN
GND
U IN
GND
V IN
GND
Y OUT
GND
U OUT
GND
V OUT
GND
+9V-1
+5V-2
GND
HD 15K
SCL2
SDA2
VD IN
MW-YS
GND
B.MASK
VD OUT 100 Hz
CLAMP
BLK
HD OUT 32K Hz
GND
50Hz
15.6K Hz
U101(SAME AS 2878DG)
UP CONVERTER UNIT PB7103X


C874
25V33μ
BA
BB
BC
MS02B
3P2.5mm
MS02
3P-3P
MS02A
3P2.5mm
+12V-2
D612
1N4148
C613
16V47μ
+9V-1
1.2Vp-p
L400
PL-100
+9V-1
C403
M0.039
C430
0.01
C431
16V1000μ
SO/SI/SCK/SS-(32MW7DB/DG ONLY)
SDA2/SCL2
SDA2/SCL2
V-BLK
D312
1N4148
X401
TCR1023
GJ50
SHORT
GJ51
SHORT
R402
10K
R502
100
R503
100
SDA1/SCL1
SDA2/SCL2
R401
390
AUDIO-Vcc/-GND
RB90
3.9K
QB92
2SC1815Y
RB91
47K
CB90
0.01
RB98
1K
QB93
2SA1015Y
R513
4.7K
+12V-1
32Hz H
9V(DEF)
CLAMP
B MASK
BLK
GND(digital)
SDA
SCL
GJ52
SHORT
D501
1N4148
R514
4.7K
C526
100
D502
1N4148
AFC
OSD Ys
R IN
G IN
B IN
Ys
VD OUT
HD OUT
GND
QB95
2SA1015Y
CR12
M0.1
CR13
M0.1
CR14
M0.1
R217
100
R218
OPEN
G333
SHORT
C219
OPEN
1.9Vp-p
2.3VDC
0.8VDC
+5V-2
SDA1/SCL1
R216
10K
C210
OPEN
SDA2/SCL2
SDA1/SCL1
VD
+9V-1
9.0
R206
2.2K
VM
ABCL
HD
R205
100
3.5
2.8
GND
HD 15K
C218
39
R240
OPEN
Q201
2SA1015Y
G243
SHORT
R235
4.7K
+5V-2
RA77
4.7K
QA04
RN1204
VD
VD
R296
1K
C216
100
R237
10K
RA78
4.7K
HD
+12V-2
+5V-3(MW7)
HD
GJ70
OPEN
RA74
10K
RA79
10K
QA05
2SC752GTM Y
C230
OPEN
G200
SHORT
+8V
RMT OUT
+32V
+32V
R424
1.5K
R425
1/2R3.3K
D422
MTZJ15C
RMT IN
BB81
8PB-B
BB71
8PB-B
BB41
8PB-B
BB51
8PB-B
GND
32kHz H-OUT
GND
PAL/NTSC
AFC
GND
SCL1
SDA1
ABCL
100Hz V-OUT
RASTER-SW
+27V
V-BLK
ABL-SW
+9V-1
SUPER LIVE
RMT IN
RMT OUT
LED
RESET
POWER
+5V-1
+5V-1
GND
NC
SPOT KILLER
+12V-1
NC
AUDIO-GND
AUDIO-GND
AUDIO-Vcc +27V
AUDIO-Vcc +27V
+32V
BB80
BB70
BB40
BB50
1.9Vp-p
2.3VDC
0.8VDC
1.9Vp-p
2.3VDC
0.8VDC
U904A
DEF BOARD PB7275Y-1
U903
POWER BOARD PB7274G
PB7274N

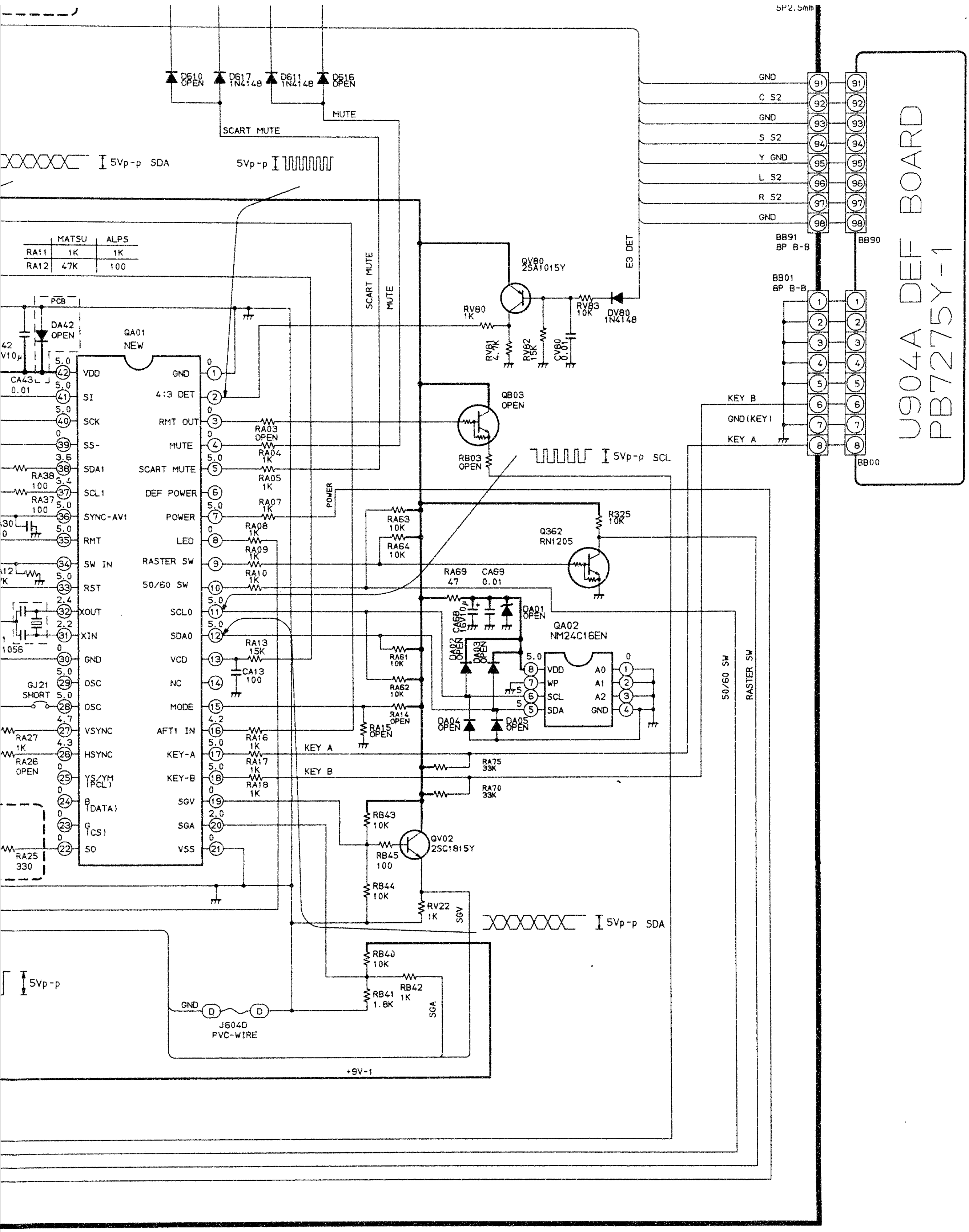


2V-2
D612
1N4148
0.1
12.0
Q612
2SA1015Y
11.8
C613
16V27μ
R612
10K
+5V-1 RESET POWER
D610 OPEN
D617 1N4148
D611 1N4148
D616 OPEN
MUTE
SCART MUTE
5Vp-p SDA
5Vp-p
5Vp-p SCL
SCART MUTE
MUTE
PCB
CA44 0.01
LA01 PL-10
CA42 16V10μ
DA42 OPEN
CA43 0.01
QA01 NEW
+5V-1
RA44 RA45 RA46
4.7K 4.7K 4.7K
SI
SCK
SS-
SO
RA43 330
RA42 330
RA41 330
SDA1
SCL1
RA38 100
RA37 100
RA36 4.7K
CA30 100
RA35 1K
RA11 1K
RA12 47K
CA33 0.01
XA01 TCR1056
RA33 1K
GJ21 SHORT
RA27 1K
RA26 OPEN
RA24 4.7K
RA25 330
J601A PVC-WIRE
42 VDD 5.0
41 SI 5.0
40 SCK 5.0
39 SS- 0
38 SDA1 3.6
37 SCL1 3.4
36 SYNC-AV1 5.0
35 RMT 5.0
34 SW IN 5.0
33 RST 5.0
32 XOUT 2.4
31 XIN 2.2
30 GND 0
29 OSC 5.0
28 OSC 5.0
27 VSYNC 4.7
26 HSYNC 4.3
25 YS/YM (PCL) 0
24 B (DATA) 0
23 G (CS) 0
22 SO 0
1 GND 0
2 4:3 DET 0
3 RMT OUT 0
4 MUTE 0
5 SCART MUTE 5.0
6 DEF POWER 0
7 POWER 5.0
8 LED 0
9 RASTER SW 0
10 50/60 SW 0
11 SCL0 5.0
12 SDA0 5.0
13 VCD 0
14 NC
15 MODE
16 AFT1 IN 4.2
17 KEY-A 5.0
18 KEY-B 5.0
19 SGV 0
20 SGA 2.0
21 VSS 0
RA03 OPEN
RA04 1K
RA05 1K
RA07 1K
RA08 1K
RA09 1K
RA10 1K
RA13 15K
CA13 100
RA14 OPEN
RA15 OPEN
RA16 1K
RA17 1K
RA18 1K
KEY A
KEY B
POWER
RA63 10K
RA64 10K
RA61 10K
RA62 10K
RB43 10K
RB45 100
RB44 10K
RB40 10K
RB41 1.8K
RB42 1K
GND
J604D PVC-WIRE
RB90 3.9K
QB92 2SC1815Y
RB91 47K
CB90 0.01
RB98 1K
RB92 270
RB96 27K
RB94 2.2K
QB93 2SA1015Y
QB94 2SA1015Y
fH
5Vp-p
QB81 2SC2878A
SCL2
RB93 270
RB97 27K
RB95 2.2K
QB82 2SC2878A
RB83 12K
SDA2
+9V-1
QB95 2SA1015Y
QB96 2SA1015Y
RB82 12K
RB84 5.6K
QB83 2SA1015Y
RB81 1.2K
SCL1
SDA1
+5V-2
SDA1/SCL1
RMT IN
VD
fV
5Vp-p
SYNC-AV1
SGA / SGV
fH
5Vp-p
+12V-2
+5V-3(MW7)
GJ80 OPEN
+8V
+9V-1
B OUT
G OUT
R OUT
VM
+9V-1
RMT OUT
LC11 TEM2028K
GJ33 OPEN
LC12 TEM2028K
GJ64 OPEN
GJ62 OPEN
LC13 TEM2028K
GJ66 OPEN
LC14 TEM2028K
GJ68 OPEN
LC15 TEM2028K
GJ65 OPEN
GJ67 OPEN
GJ69 OPEN
GJ63 OPEN
GJ34 OPEN
P902A 8P2.5mm
53 54 55 56 57 58
BB61 8PB-B
61 62 63 64 65 66 67 68
BB61 8PB-B
146 145 144 143 142 141 151 152
+12V-1
NC
AUDIO-GND
AUDIO-GND
AUDIO-Vcc +27V
AUDIO-Vcc +27V
+32V
+8V
+5V-3(MW7) +8V(28W7)
+12V-2
+12V-2
GND
GND
GND
+9V-1
B
G
R
GND
GND
GND
VM
M902
TO P902 ON CRT-D BOARD WITH M902
BB60
PB7274G(32MW7DB)
PB7274N(32MW7DG)

	OTHER
RA41	330
RA42	330
RA43	330
RA44	4.7K
RA45	4.7K
RA46	4.7K
RA24	4.7K
RA25	330
J601A	PVC-WIRE

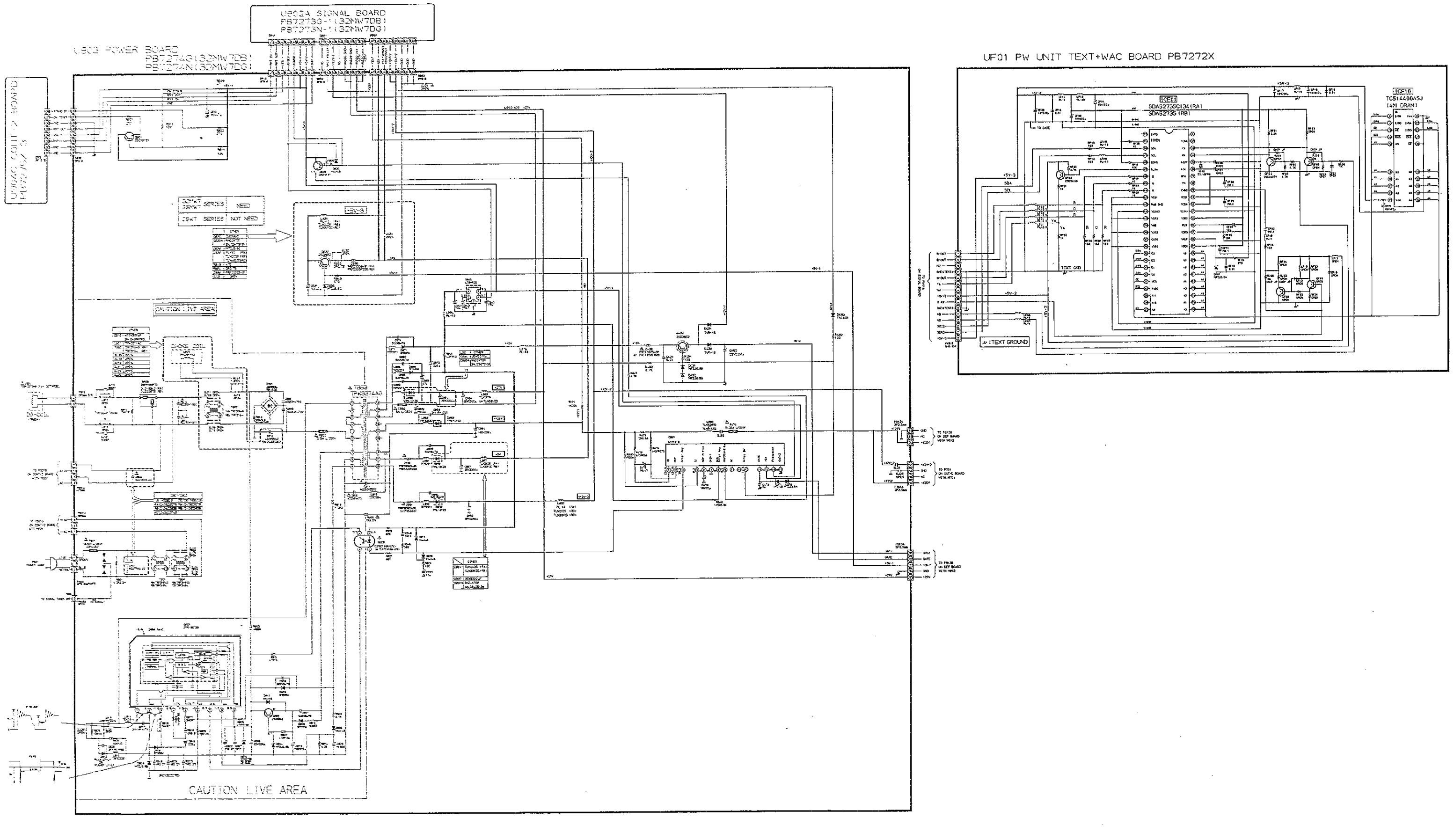
	MATSU	ALPS
RA11	1K	1K
RA12	47K	100

	OTHER
GJ80	OPEN

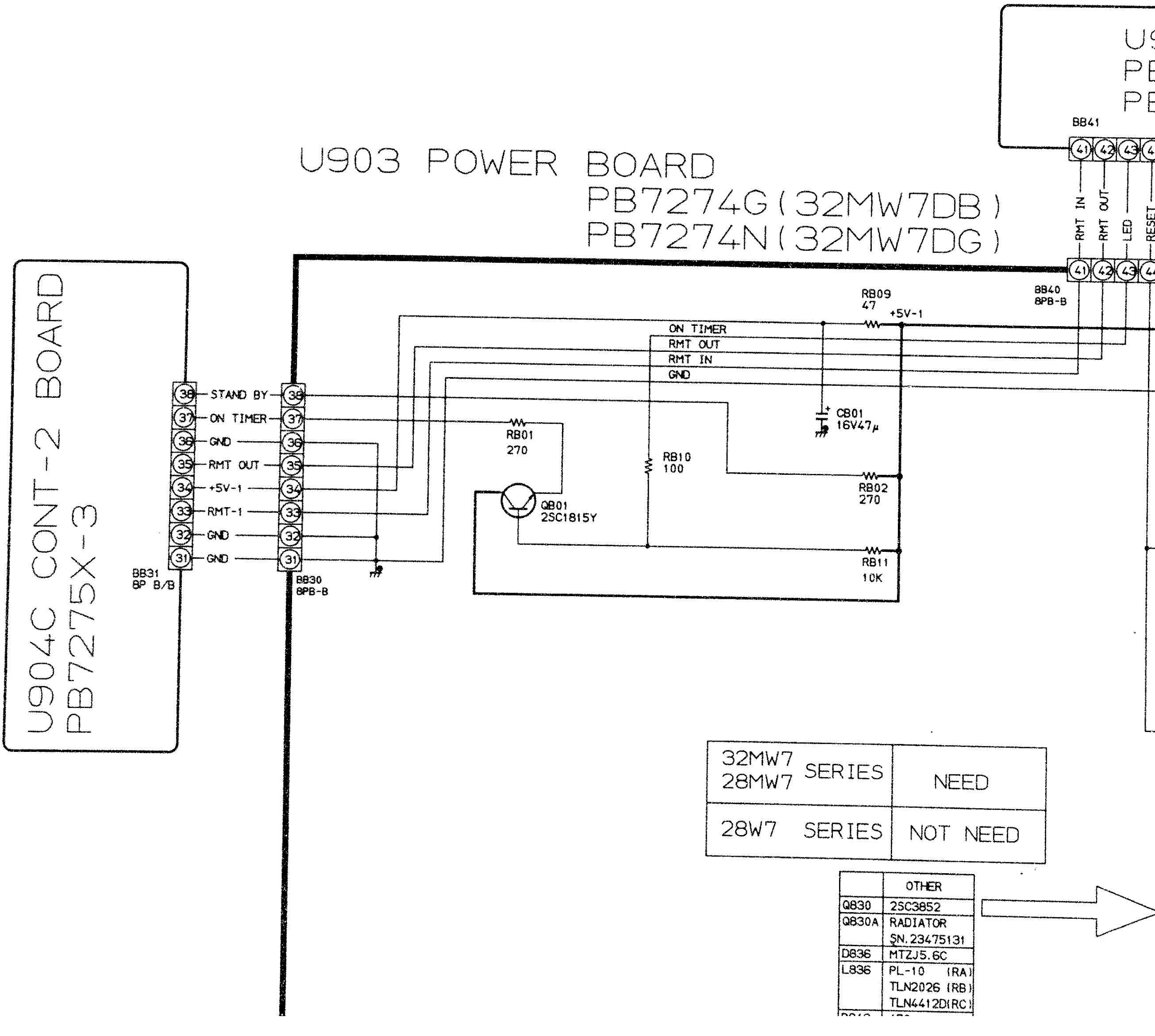

5P2.5mm
D610 OPEN
D617 1N4148
D611 1N4148
D616 OPEN
SCART MUTE
MUTE
5Vp-p SDA
5Vp-p
GND
C S2
GND
S S2
Y GND
L S2
R S2
GND
91
92
93
94
95
96
97
98
BB91 8P B-B
BB90
U904A DEF BOARD
PB7275Y-1
E3 DET
QV80 2SA1015Y
RV80 1K
RV91 4.7K
RV92 15K
CV80 0.01
RV83 10K
DV80 1N4148
BB01 8P B-B
BB00
KEY B
GND(KEY)
KEY A
PCB
DA42 OPEN
42
V10μ
CA43
0.01
QA01 NEW
VDD
SI
SCK
SS-
SDA1
SCL1
SYNC-AV1
RMT
SW IN
RST
XOUT
XIN
GND
OSC
OSC
VSYNC
HSYNC
YS/YM (PCL)
B (DATA)
G (CS)
SO
GND
4:3 DET
RMT OUT
MUTE
SCART MUTE
DEF POWER
POWER
LED
RASTER SW
50/60 SW
SCL0
SDA0
VCD
NC
MODE
AFT1 IN
KEY-A
KEY-B
SGV
SGA
VSS
RA38 100
RA37 100
RA27 1K
RA26 OPEN
RA25 330
GJ21 SHORT
1056
RA03 OPEN
RA04 1K
RA05 1K
RA07 1K
RA08 1K
RA09 1K
RA10 1K
RA13 15K
CA13 100
RA16 1K
RA17 1K
RA18 1K
QB03 OPEN
RB03 OPEN
5Vp-p SCL
POWER
RA63 10K
RA64 10K
R325 10K
Q362 RN1205
RA69 47
CA69 0.01
CA68 16V10μ
DA01 OPEN
QA02 NM24C16EN
DA02 OPEN
DA03 OPEN
RA61 10K
RA62 10K
RA14 OPEN
RA15 OPEN
DA04 OPEN
DA05 OPEN
VDD
WP
SCL
SDA
A0
A1
A2
GND
50/60 SW
RASTER SW
RA75 33K
RA70 33K
RB43 10K
QV02 2SC1815Y
RB45 100
RB44 10K
RV22 1K
SGV
5Vp-p SDA
RB40 10K
RB41 1.8K
RB42 1K
SGA
GND
J604D PVC-WIRE
+9V-1

	MATSU	ALPS
RA11	1K	1K
RA12	47K	100

SCHEMATIC DIAGRAM **MODEL : 32MW7DB (2/6)**
32MW7DG


U902A SIGNAL BOARD
PB7273G-1 (32MW7DB)
PB7273N-1 (32MW7DG)
U903 POWER BOARD
PB7274G (32MW7DB)
PB7274N (32MW7DG)
U904C CONTROL BOARD
PB7275/ 3
32MW7 28MW7 SERIES NEED
28W7 SERIES NOT NEED
+5V-3
CAUTION LIVE AREA
CAUTION LIVE AREA
UF01 PW UNIT TEXT+WAC BOARD PB7272X
ICF01
SDA5273SC134 (RA)
SDA5273S (RB)
ICF10
TC514400ASJ
(4M DRAM)
+5V-3
SDA
SCL
TEXT GND
TEXT GROUND

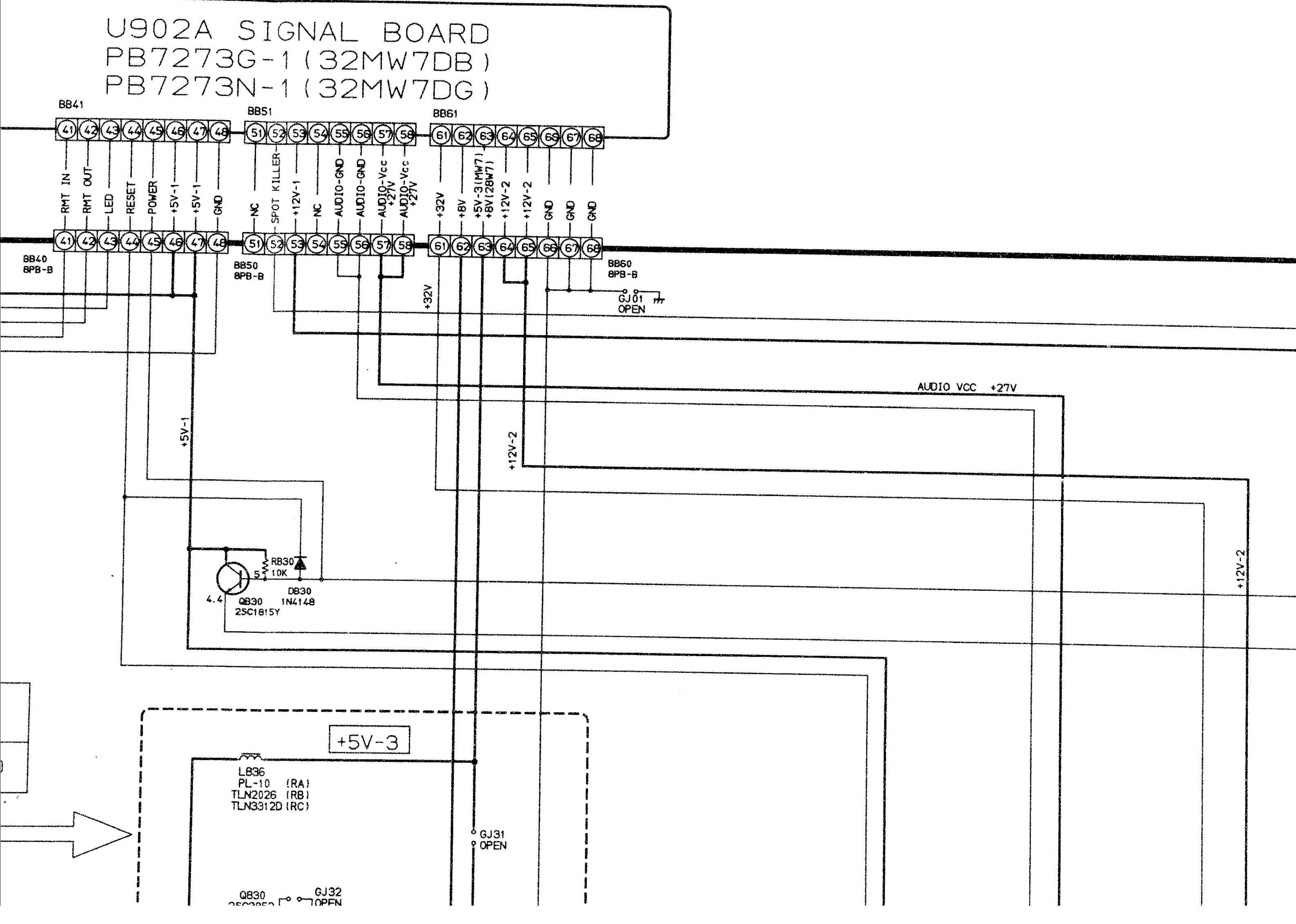
SCHEMATIC DIAGRAM MODEL : 32MW7DB (2/6)
32MW7DG

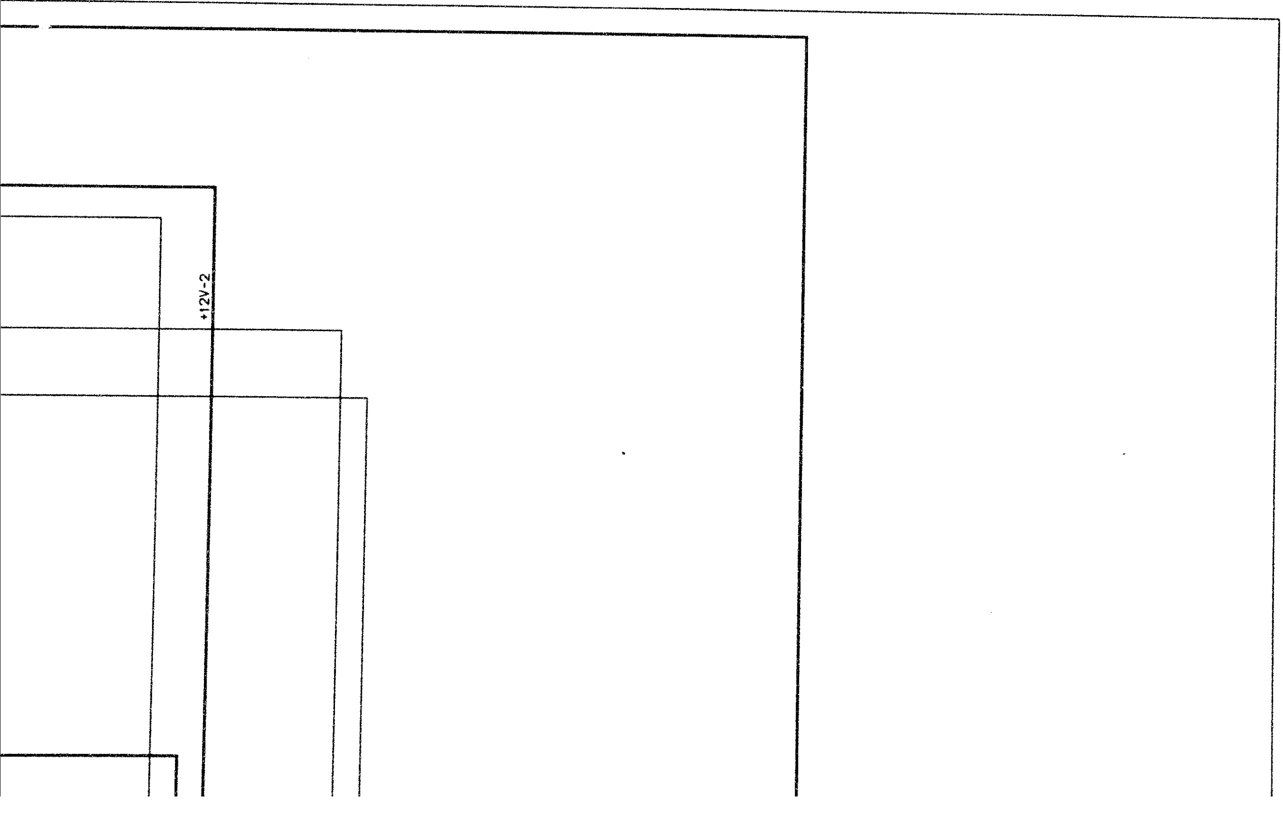

U903 POWER BOARD
PB7274G(32MW7DB)
PB7274N(32MW7DG)
U904C CONT-2 BOARD
PB7275X-3
BB31
8P B/B
BB30
8PB-B
BB40
8PB-B
BB41
STAND BY
ON TIMER
GND
RMT OUT
+5V-1
RMT-1
GND
GND
38
37
36
35
34
33
32
31
41
42
43
RMT IN
RMT OUT
LED
RESET
ON TIMER
RMT OUT
RMT IN
GND
RB09
47
+5V-1
CB01
16V47µ
RB01
270
RB10
100
RB02
270
QB01
2SC1815Y
RB11
10K

32MW7 28MW7 SERIES	NEED
28W7 SERIES	NOT NEED

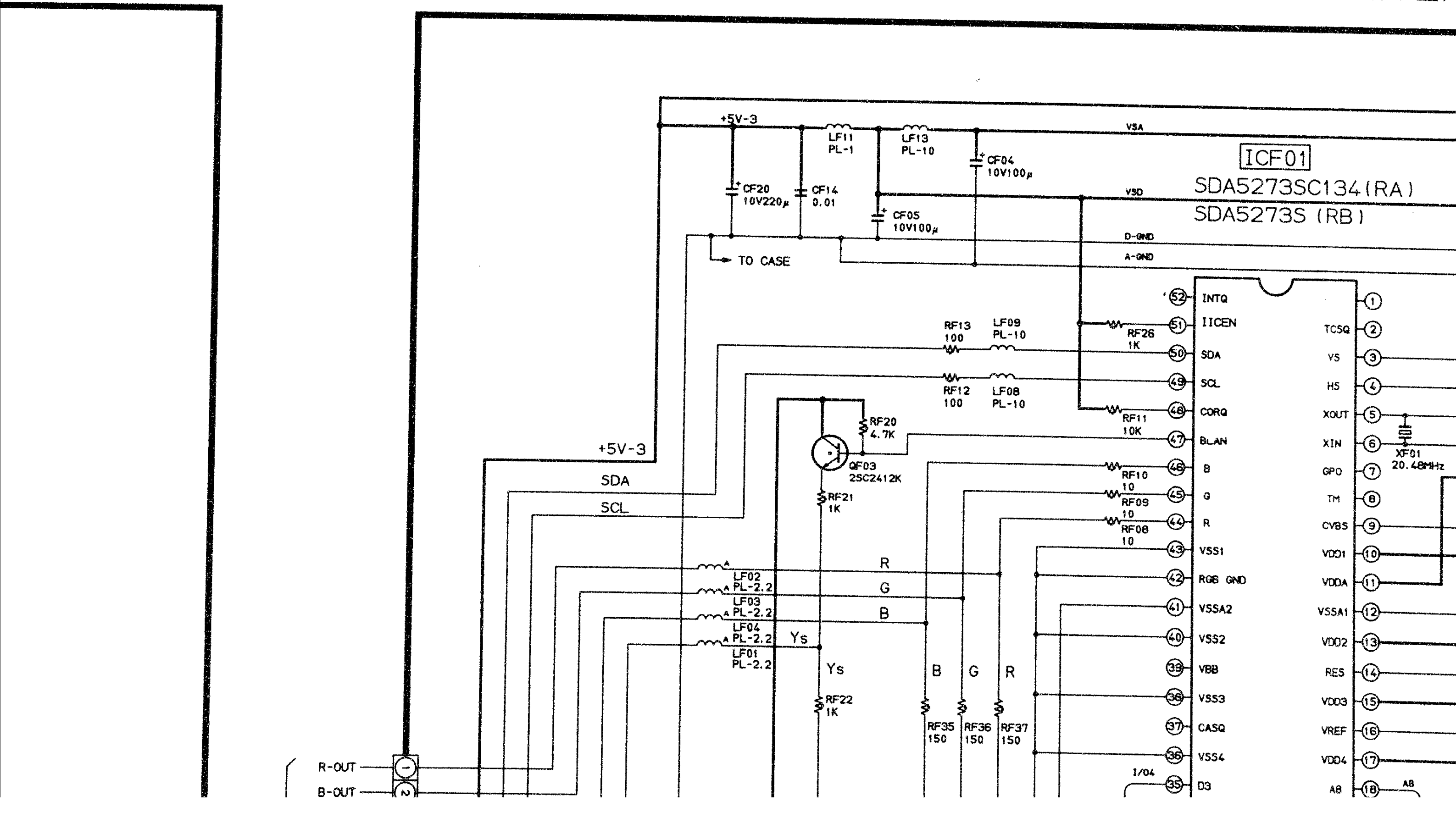
	OTHER
Q830	2SC3852
Q830A	RADIATOR SN.23475131
D836	MTZJ5.6C
L836	PL-10 (RA) TLN2026 (RB) TLN4412D(RC)

(2/6)

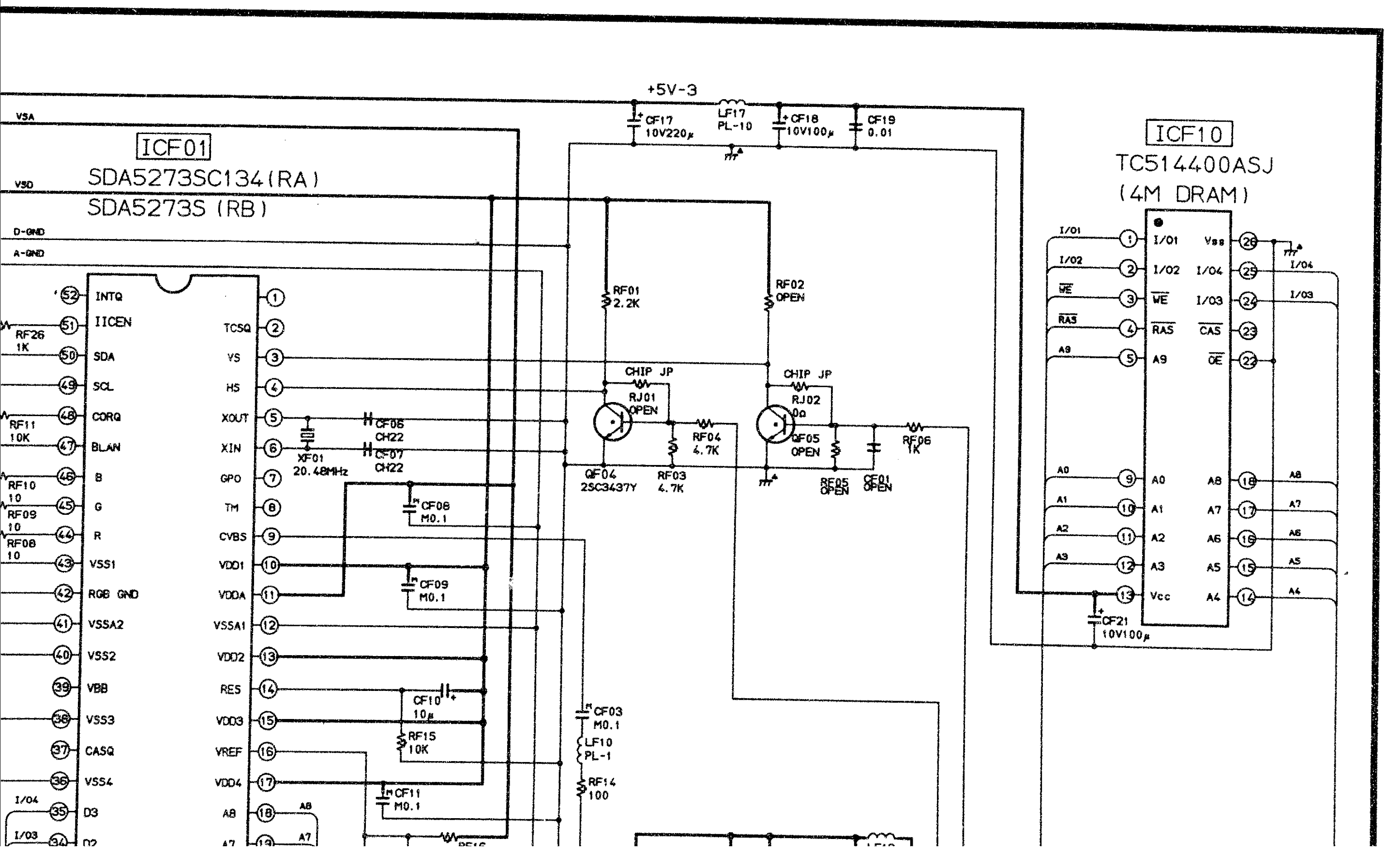

U902A SIGNAL BOARD
PB7273G-1 (32MW7DB)
PB7273N-1 (32MW7DG)
BB41
BB51
BB61
RMT IN
RMT OUT
LED
RESET
POWER
+5V-1
+5V-1
GND
NC
SPOT KILLER
+12V-1
NC
AUDIO-GND
AUDIO-GND
AUDIO-Vcc +27V
AUDIO-Vcc +27V
+32V
+8V
+5V-3(MW7)
+8V(28W7)
+12V-2
+12V-2
GND
GND
GND
BB40
8PB-B
BB50
8PB-B
BB60
8PB-B
GJ01
OPEN
+32V
AUDIO VCC +27V
+12V-2
+5V-1
+12V-2
RB30
10K
DB30
1N4148
QB30
2SC1815Y
4.4
5
+5V-3
LB36
PL-10 (RA)
TLN2026 (RB)
TLN3312D (RC)
GJ31
OPEN
QB30
GJ32
OPEN

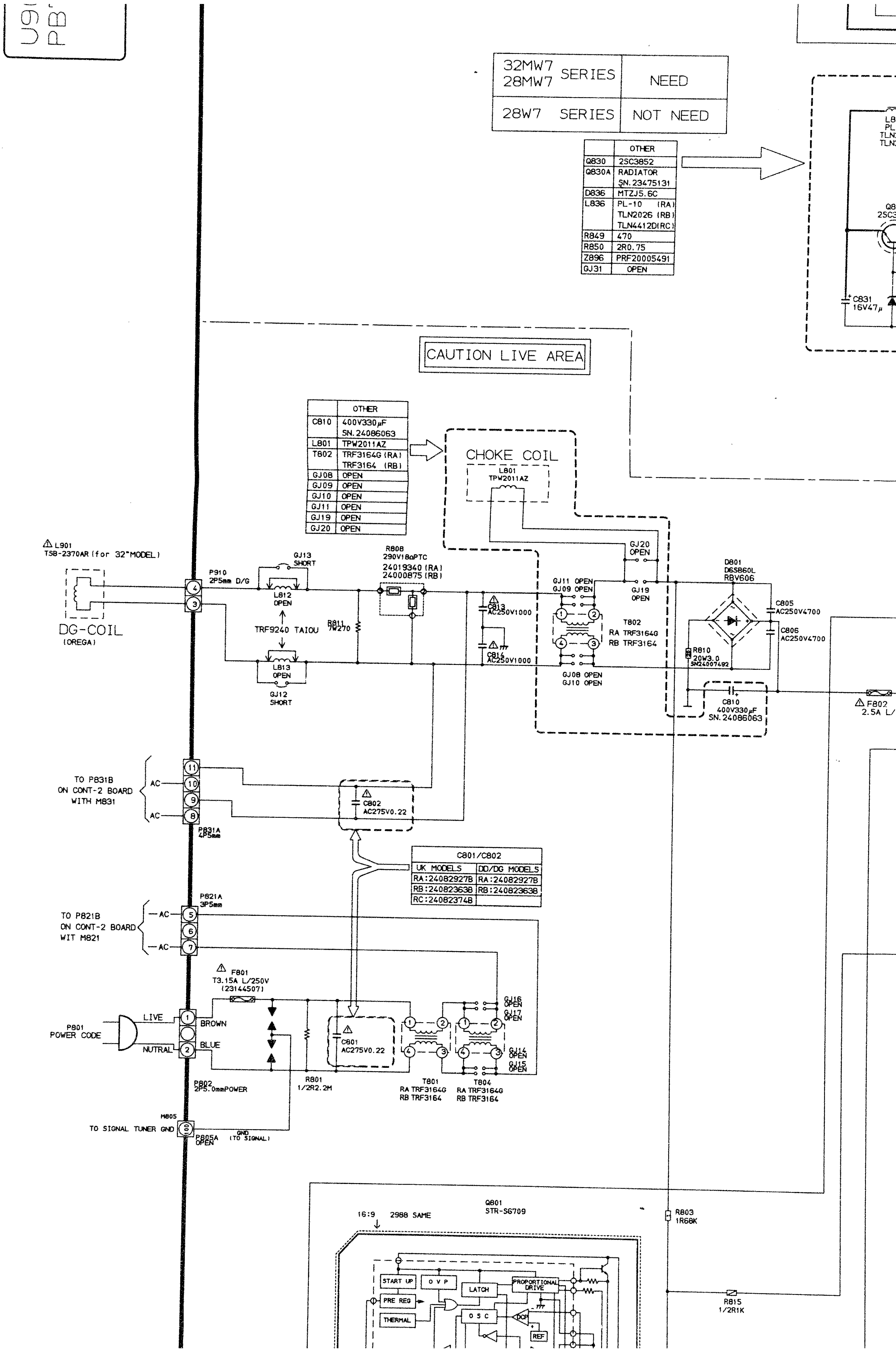

+12V-2

UF01 PW UNIT TEXT+WAC BOARD PB7272


+5V-3
LF11
PL-1
LF13
PL-10
VSA
CF04
10V100µ
CF20
10V220µ
CF14
0.01
CF05
10V100µ
VSD
ICF01
SDA5273SC134(RA)
SDA5273S (RB)
D-GND
A-GND
TO CASE
RF13
100
LF09
PL-10
RF12
100
LF08
PL-10
RF26
1K
RF11
10K
RF20
4.7K
QF03
2SC2412K
RF21
1K
+5V-3
SDA
SCL
RF10
10
RF09
10
RF08
10
LF02
PL-2.2
LF03
PL-2.2
LF04
PL-2.2
LF01
PL-2.2
R
G
B
Ys
Ys
B
G
R
RF22
1K
RF35
150
RF36
150
RF37
150
R-OUT
B-OUT
I/04
52 INTQ
51 IICEN
50 SDA
49 SCL
48 CORQ
47 BLAN
46 B
45 G
44 R
43 VSS1
42 RGB GND
41 VSSA2
40 VSS2
39 VBB
38 VSS3
37 CASQ
36 VSS4
35 D3
1
TCSQ 2
VS 3
HS 4
XOUT 5
XIN 6
GPO 7
TM 8
CVBS 9
VDD1 10
VDDA 11
VSSA1 12
VDD2 13
RES 14
VDD3 15
VREF 16
VDD4 17
A8 18
A8
XF01
20.48MHz

BOARD PB7272X


+5V-3
LF17
PL-10
CF17
10V220μ
CF18
10V100μ
CF19
0.01
VSA
VSD
D-GND
A-GND
ICF01
SDA5273SC134(RA)
SDA5273S (RB)
INTQ
IICEN
SDA
SCL
CORQ
BLAN
B
G
R
VSS1
RGB GND
VSSA2
VSS2
VBB
VSS3
CASQ
VSS4
D3
D2
TCSQ
VS
HS
XOUT
XIN
GPO
TM
CVBS
VDD1
VDDA
VSSA1
VDD2
RES
VDD3
VREF
VDD4
A8
A7
RF26
1K
RF11
10K
RF10
10
RF09
10
RF08
10
I/04
I/03
XF01
20.48MHz
CF06
CH22
CF07
CH22
CF08
M0.1
CF09
M0.1
CF10
10μ
RF15
10K
CF11
M0.1
RF16
RF01
2.2K
RF02
OPEN
CHIP JP
RJ01
OPEN
RJ02
0Ω
QF04
2SC3437Y
RF03
4.7K
RF04
4.7K
QF05
OPEN
RF05
OPEN
CE01
OPEN
RF06
1K
CF03
M0.1
LF10
PL-1
RF14
100
ICF10
TC514400ASJ
(4M DRAM)
I/01
I/02
WE
RAS
A9
A0
A1
A2
A3
Vcc
Vss
I/04
I/03
CAS
OE
A8
A7
A6
A5
A4
CF21
10V100μ



32MW7 28MW7 SERIES	NEED
28W7 SERIES	NOT NEED

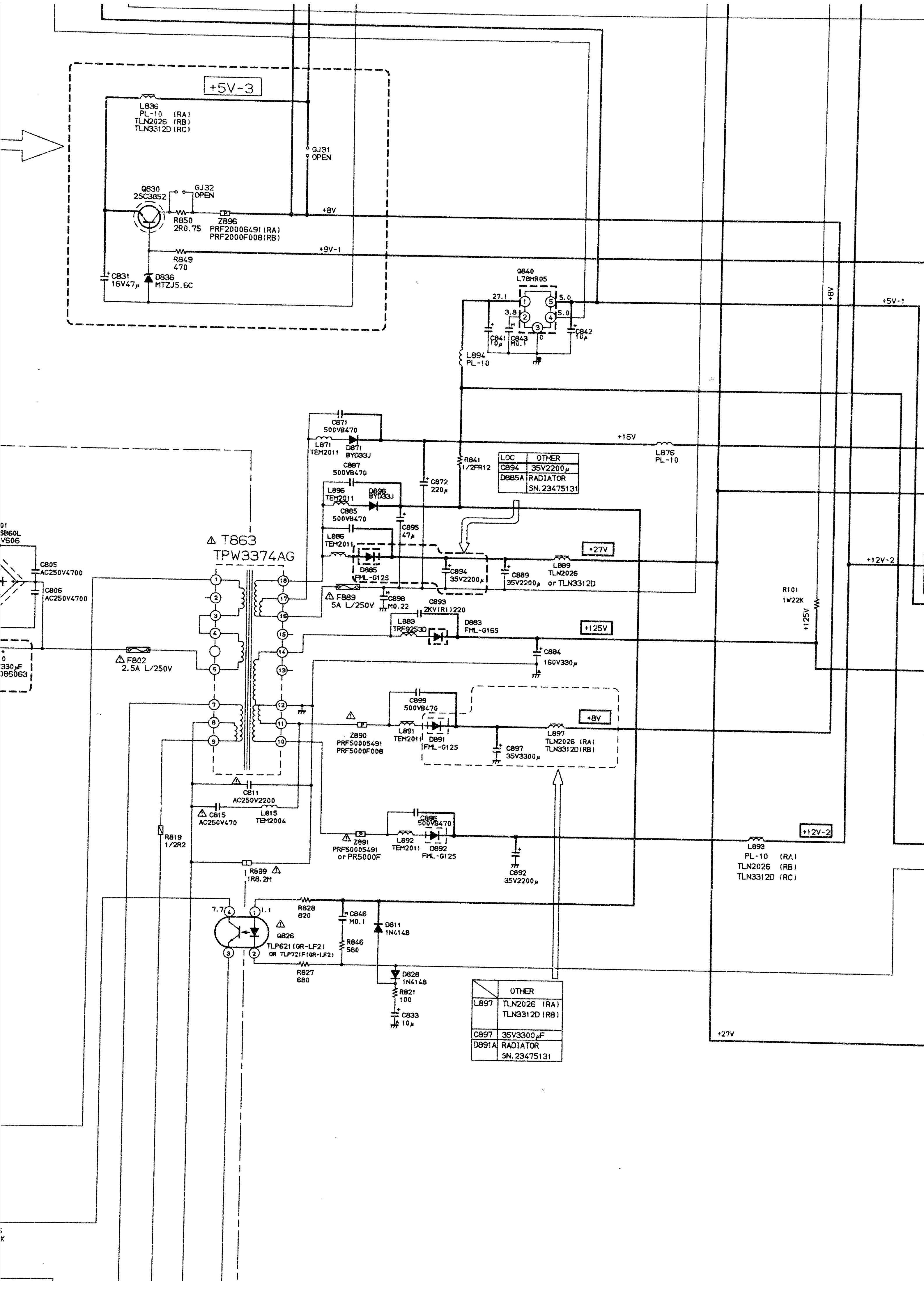
	OTHER
Q830	2SC3852
Q830A	RADIATOR SN.23475131
D836	MTZJ5.6C
L836	PL-10 (RA) TLN2026 (RB) TLN4412D(RC)
R849	470
R850	2R0.75
Z896	PRF20005491
GJ31	OPEN

CAUTION LIVE AREA

	OTHER
C810	400V330μF SN.24086063
L801	TPW2011AZ
T802	TRF3164G (RA) TRF3164 (RB)
GJ08	OPEN
GJ09	OPEN
GJ10	OPEN
GJ11	OPEN
GJ19	OPEN
GJ20	OPEN

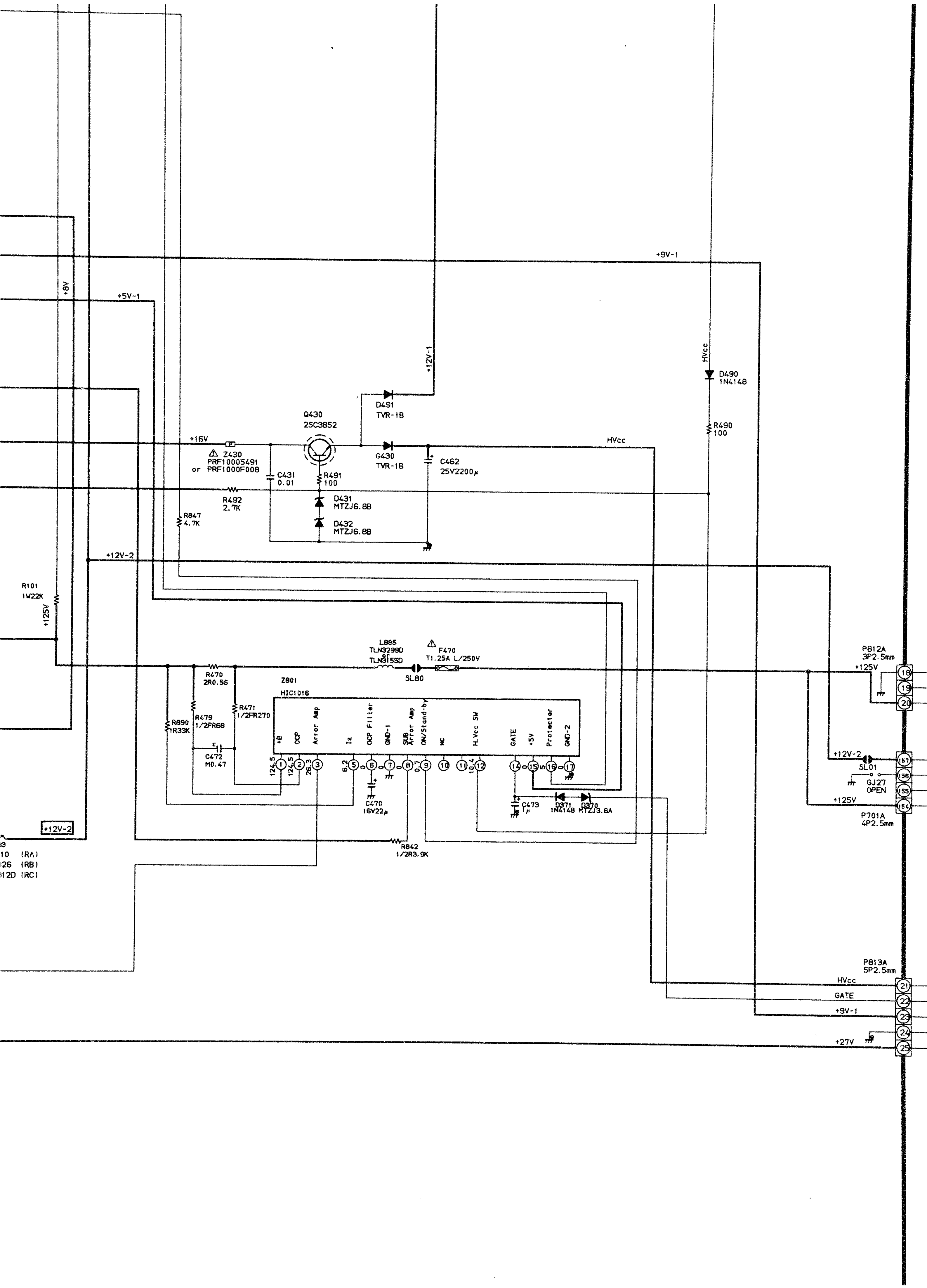
C801/C802	
UK MODELS	DD/DG MODELS
RA:24082927B	RA:24082927B
RB:24082363B	RB:24082363B
RC:24082374B	

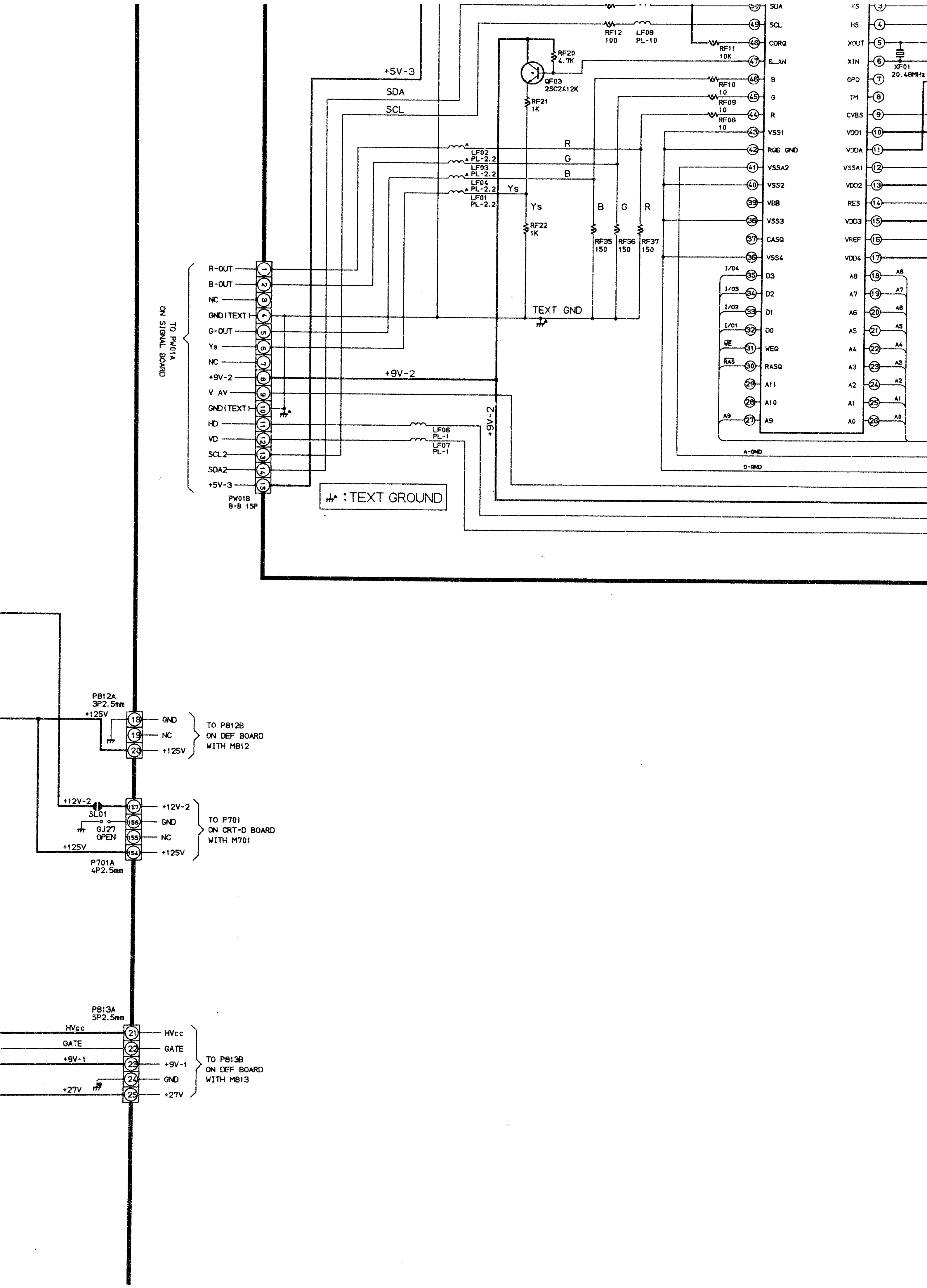
CHOKE COIL
L801
TPW2011AZ
⚠ L901
TSB-2370AR (for 32"MODEL)
DG-COIL
(OREGA)
P910
2P5mm D/G
GJ13
SHORT
L812
OPEN
TRF9240 TAIOU
L813
OPEN
GJ12
SHORT
R811
7W270
R808
290V18ΩPTC
24019340 (RA)
24000875 (RB)
C813
AC250V1000
C814
AC250V1000
GJ20
OPEN
GJ11 OPEN
GJ09 OPEN
GJ19
OPEN
T802
RA TRF3164G
RB TRF3164
GJ08 OPEN
GJ10 OPEN
D801
D6SB60L
RBV606
C805
AC250V4700
C806
AC250V4700
R810
20W3.0
SN24007492
C810
400V330μF
SN.24086063
⚠ F802
2.5A L/
TO P831B
ON CONT-2 BOARD
WITH M831
AC
AC
P831A
4P5mm
C802
AC275V0.22
TO P821B
ON CONT-2 BOARD
WIT M821
AC
AC
P821A
3P5mm
⚠ F801
T3.15A L/250V
(23144507)
GJ16
OPEN
GJ17
OPEN
GJ14
OPEN
GJ15
OPEN
P801
POWER CODE
LIVE
NUTRAL
BROWN
BLUE
C801
AC275V0.22
R801
1/2R2.2M
T801
RA TRF3164G
RB TRF3164
T804
RA TRF3164G
RB TRF3164
P802
2P5.0mmPOWER
M805
TO SIGNAL TUNER GND
P805A
OPEN
GND
(TO SIGNAL)
Q801
STR-S6709
16:9 2988 SAME
R803
1R68K
R815
1/2R1K
START UP
O V P
LATCH
PROPORTIONAL DRIVE
PRE REG
THERMAL
O S C
OCP
REF
L8
PL
TLN
TLN
Q8
2SC
C831
16V47μ
U9
PB

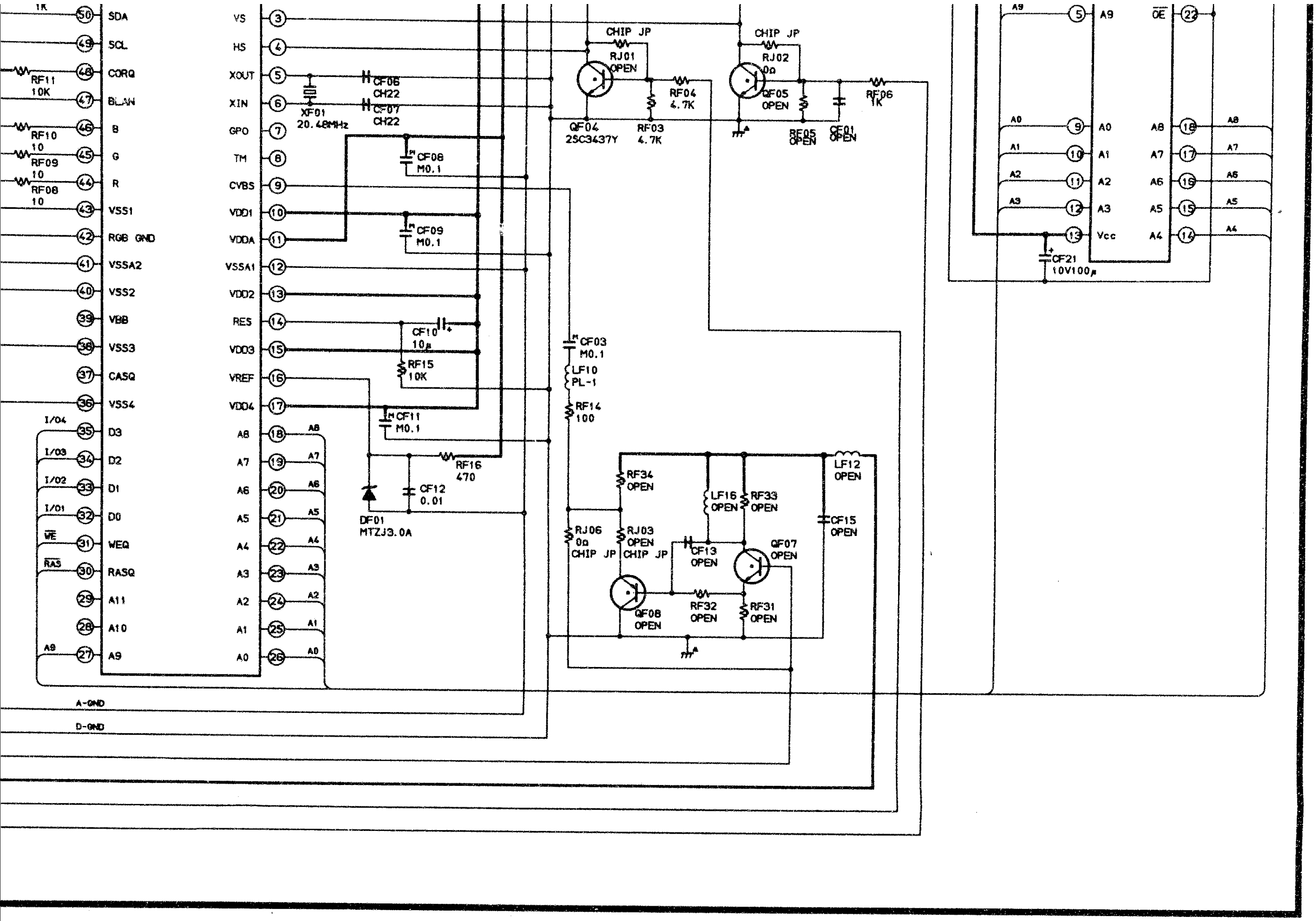

+5V-3
L836
PL-10 (RA)
TLN2026 (RB)
TLN3312D (RC)
GJ31
OPEN
Q830
2SC3852
GJ32
OPEN
R850
2R0.75
Z896
PRF20006491(RA)
PRF2000F008(RB)
+8V
R849
470
+9V-1
C831
16V47μ
D836
MTZJ5.6C
Q840
L78MR05
27.1
3.8
5.0
5.0
0
C841
10μ
C843
M0.1
C842
10μ
L894
PL-10
+5V-1
+8V
C871
500VB470
L871
TEM2011
D871
BYD33J
+16V
L876
PL-10
R841
1/2FR12
C887
500VB470
L896
TEM2011
D896
BYD33J
C872
220μ
C885
500VB470
C895
47μ
L886
TEM2011
D885
FML-G12S
C894
35V2200μ
C889
35V2200μ
L889
TLN2026
or TLN3312D
+27V
+12V-2
T863
TPW3374AG
F889
5A L/250V
C898
M0.22
C893
2KV(R1)220
L883
TRF9253D
D883
FML-G16S
+125V
C884
160V330μ
R101
1W22K
+125V
C805
AC250V4700
C806
AC250V4700
F802
2.5A L/250V
330μF
C899
500VB470
Z890
PRF50005491
PRF5000F008
L891
TEM2011
D891
FML-G12S
C897
35V3300μ
L897
TLN2026 (RA)
TLN3312D(RB)
+8V
C811
AC250V2200
C815
AC250V470
L815
TEM2004
R819
1/2R2
C896
500VB470
Z891
PRF50005491
or PR5000F
L892
TEM2011
D892
FML-G12S
C892
35V2200μ
L893
PL-10 (RA)
TLN2026 (RB)
TLN3312D (RC)
+12V-2
R699
1R8.2M
7.7
1.1
Q826
TLP621(GR-LF2)
OR TLP721F(GR-LF2)
R828
820
C846
M0.1
R846
560
D811
1N4148
R827
680
D828
1N4148
R821
100
C833
10μ
+27V

LOC	OTHER
C894	35V2200μ
D885A	RADIATOR SN.23475131

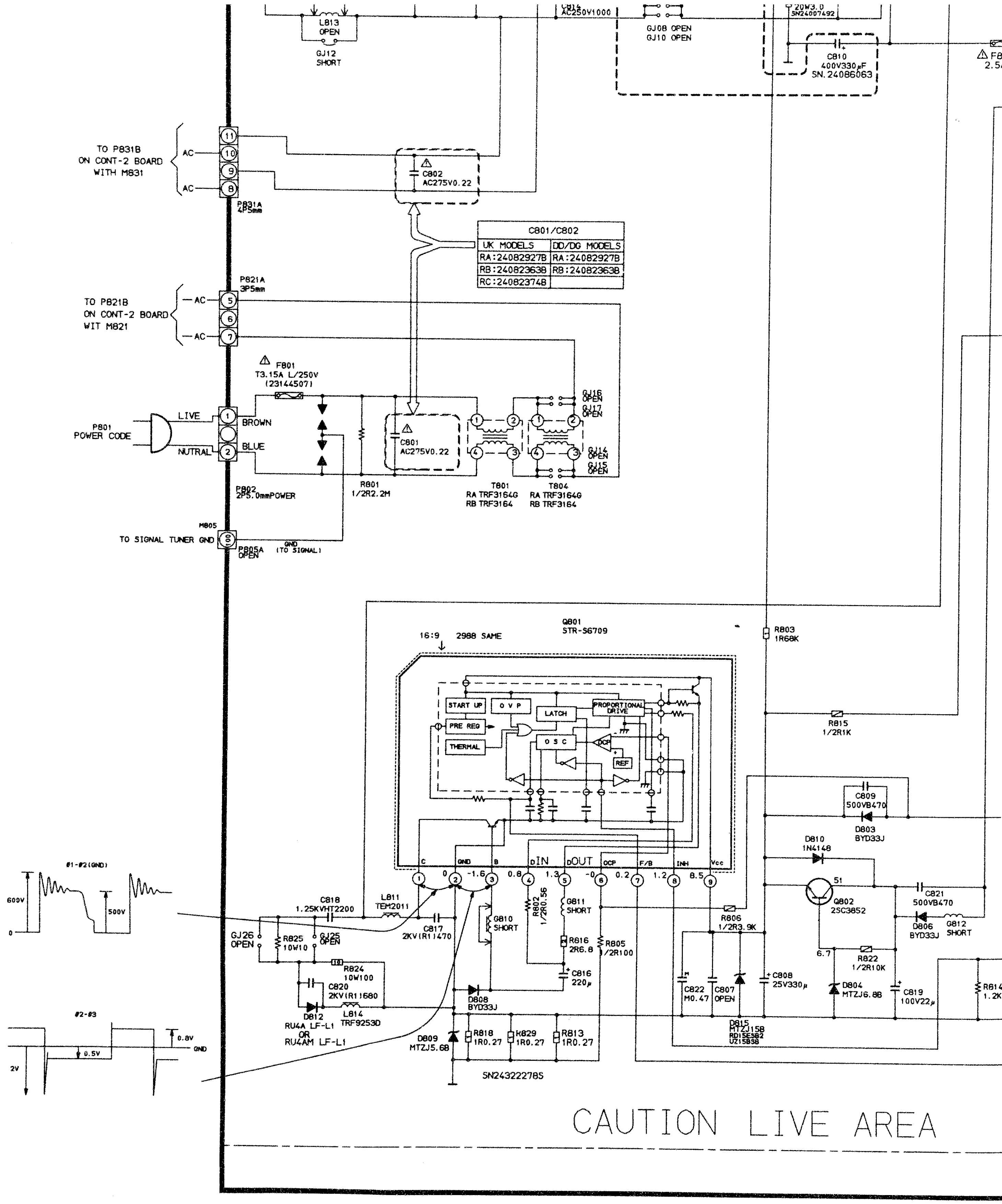
	OTHER
L897	TLN2026 (RA) TLN3312D (RB)
C897	35V3300μF
D891A	RADIATOR SN.23475131


+9V-1
+8V
+5V-1
+12V-1
HVcc
D490
1N4148
D491
TVR-1B
Q430
2SC3852
R490
100
+16V
Z430
PRF10005491
or PRF1000F008
G430
TVR-1B
HVcc
C462
25V2200μ
C431
0.01
R491
100
R492
2.7K
D431
MTZJ6.8B
D432
MTZJ6.8B
R847
4.7K
+12V-2
R101
1W22K
+125V
L885
TLN32990
or
TLN3155D
F470
T1.25A L/250V
SL80
P812A
3P2.5mm
+125V
18
19
20
R470
2R0.56
Z801
HIC1016
R471
1/2FR270
R890
1R33K
R479
1/2FR68
C472
M0.47
+B
OCP
Arror Amp
Iz
OCP Filter
GND-1
SUB Arror Amp
ON/Stand-by
NC
H.Vcc SW
GATE
+5V
Protecter
GND-2
124.5
124.5
26.3
6.2
0
0
0
0.7
10.4
0
5
0
1
2
3
5
6
7
8
9
10
11
12
14
15
16
17
C470
16V22μ
C473
1μ
D371
1N4148
D370
MTZJ3.6A
+12V-2
SL01
157
156
155
154
GJ27
OPEN
+125V
P701A
4P2.5mm
+12V-2
3
10 (RA)
26 (RB)
12D (RC)
R842
1/2R3.9K
P813A
5P2.5mm
HVcc
GATE
+9V-1
+27V
21
22
23
24
25

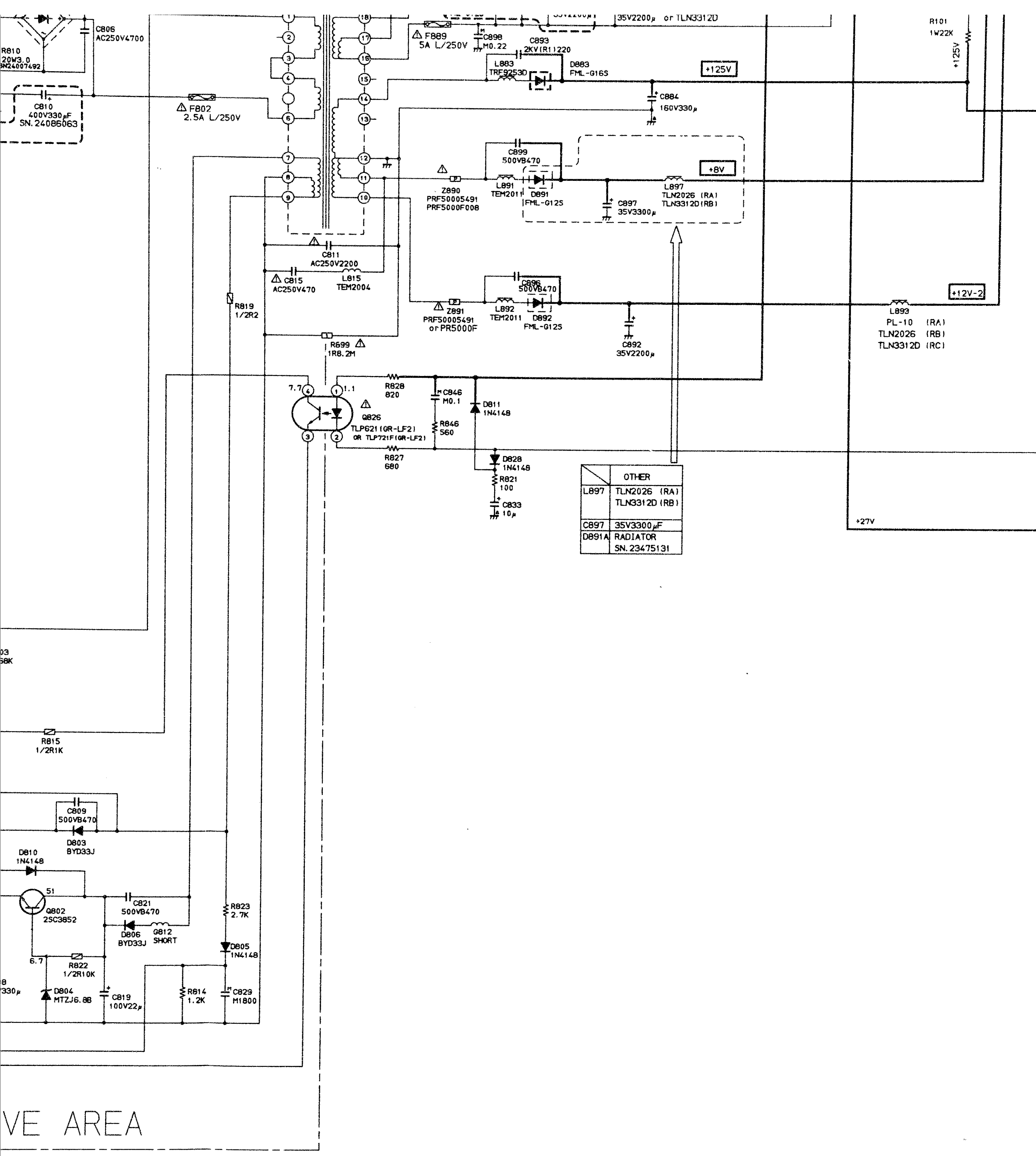

SDA
SCL
CORQ
BLAN
B
G
R
VSS1
RGB GND
VSSA2
VSS2
VBB
VSS3
CASQ
VSS4
D3
D2
D1
D0
WEQ
RASQ
A11
A10
A9
VS
HS
XOUT
XIN
GPO
TM
CVBS
VDD1
VDDA
VSSA1
VDD2
RES
VDD3
VREF
VDD4
A8
A7
A6
A5
A4
A3
A2
A1
A0
XF01
20.48MHz
RF12
100
LF08
PL-10
RF11
10K
RF20
4.7K
QF03
2SC2412K
RF21
1K
RF10
10
RF09
10
RF08
10
+5V-3
SDA
SCL
LF02
PL-2.2
LF03
PL-2.2
LF04
PL-2.2
LF01
PL-2.2
Ys
R
G
B
RF22
1K
RF35
150
RF36
150
RF37
150
I/04
I/03
I/02
I/01
WE
RAS
TEXT GND
R-OUT
B-OUT
NC
GND(TEXT)
G-OUT
Ys
NC
+9V-2
V AV
GND(TEXT)
HD
VD
SCL2
SDA2
+5V-3
TO PW01A
ON SIGNAL BOARD
PW01B
B-B 15P
+9V-2
LF06
PL-1
LF07
PL-1
A-GND
D-GND
: TEXT GROUND
P812A
3P2.5mm
+125V
GND
NC
+125V
TO P812B
ON DEF BOARD
WITH M812
+12V-2
SL01
GJ27
OPEN
+125V
+12V-2
GND
NC
+125V
TO P701
ON CRT-D BOARD
WITH M701
P701A
4P2.5mm
P813A
5P2.5mm
HVcc
GATE
+9V-1
+27V
HVcc
GATE
+9V-1
GND
+27V
TO P813B
ON DEF BOARD
WITH M813



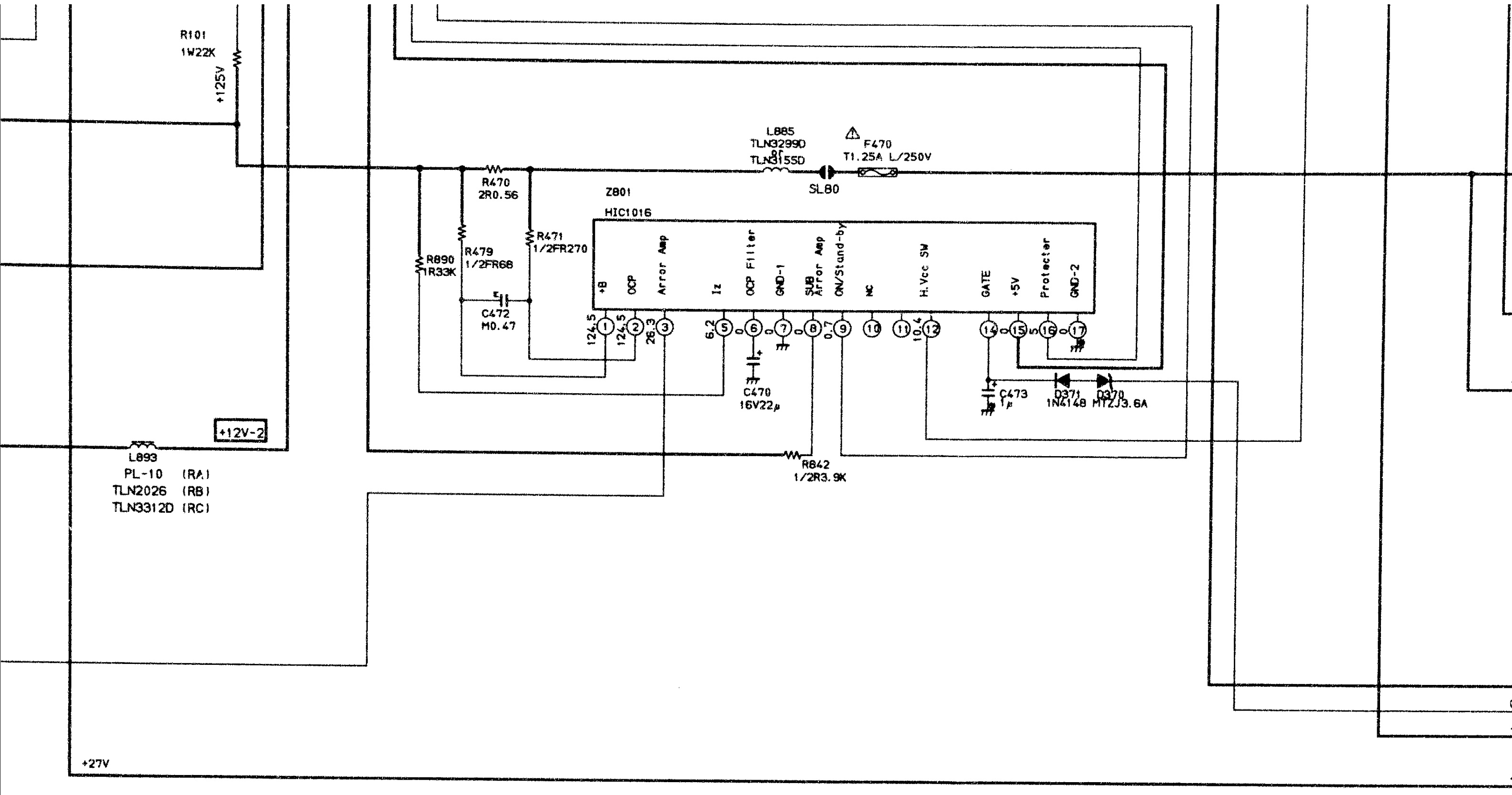
1K
SDA
SCL
RF11
10K
CORQ
BLAN
RF10
10
B
RF09
10
G
RF08
10
R
VSS1
RGB GND
VSSA2
VSS2
VBB
VSS3
CASQ
VSS4
I/04
D3
I/03
D2
I/02
D1
I/01
D0
WE
WEQ
RAS
RASQ
A11
A10
A9
A9
VS
HS
XOUT
XIN
GPO
TM
CVBS
VDD1
VDDA
VSSA1
VDD2
RES
VDD3
VREF
VDD4
A8
A7
A6
A5
A4
A3
A2
A1
A0
XF01
20.48MHz
CF06
CH22
CF07
CH22
CF08
M0.1
CF09
M0.1
CF10
10μ
RF15
10K
CF11
M0.1
RF16
470
CF12
0.01
DF01
MTZJ3.0A
A-GND
D-GND
CHIP JP
RJ01
OPEN
QF04
2SC3437Y
RF03
4.7K
RF04
4.7K
CHIP JP
RJ02
0Ω
QF05
OPEN
RF05
OPEN
CF01
OPEN
RF06
1K
CF03
M0.1
LF10
PL-1
RF14
100
RF34
OPEN
RJ06
0Ω
CHIP JP
RJ03
OPEN
CHIP JP
QF08
OPEN
LF16
OPEN
RF33
OPEN
CF13
OPEN
QF07
OPEN
RF32
OPEN
RF31
OPEN
LF12
OPEN
CF15
OPEN
A9
OE
A0
A8
A1
A7
A2
A6
A3
A5
Vcc
A4
CF21
10V100μ

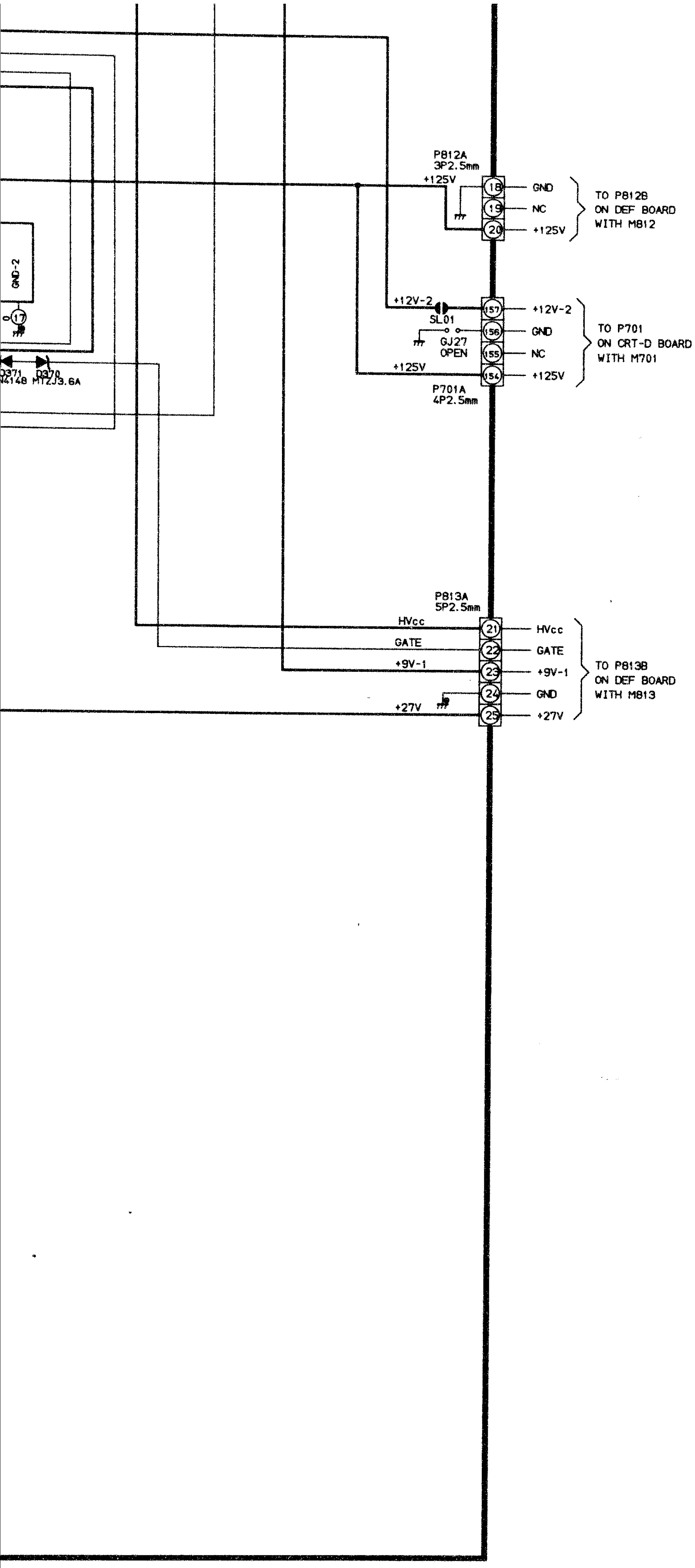

L813
OPEN
GJ12
SHORT
C814
AC250V1000
GJ08 OPEN
GJ10 OPEN
20W3.0
SN24007492
C810
400V330μF
SN.24086063
⚠ F8
2.5
TO P831B
ON CONT-2 BOARD
WITH M831
AC
AC
11
10
9
8
P831A
4P5mm
⚠
C802
AC275V0.22
P821A
3P5mm
TO P821B
ON CONT-2 BOARD
WIT M821
AC
AC
5
6
7
⚠ F801
T3.15A L/250V
(23144507)
GJ16
OPEN
GJ17
OPEN
GJ14
OPEN
GJ15
OPEN
P801
POWER CODE
LIVE
NUTRAL
BROWN
BLUE
1
2
⚠
C801
AC275V0.22
P802
2P5.0mmPOWER
R801
1/2R2.2M
T801
RA TRF3164G
RB TRF3164
T804
RA TRF3164G
RB TRF3164
M805
TO SIGNAL TUNER GND
P805A
OPEN
GND
(TO SIGNAL)
Q801
STR-S6709
16:9 2988 SAME
R803
1R68K
START UP
O V P
LATCH
PROPORTIONAL DRIVE
PRE REG
THERMAL
O S C
OCP
REF
R815
1/2R1K
C809
500VB470
D803
BYD33J
D810
1N4148
C
GND
B
DIN
DOUT
OCP
F/B
INH
Vcc
0
-1.6
0.8
1.3
-0
0.2
1.2
8.5
51
Q802
2SC3852
C821
500VB470
D806
BYD33J
G812
SHORT
#1-#2(GND)
600V
500V
0
C818
1.25KVHT2200
L811
TEM2011
C817
2KV(R1)470
G810
SHORT
R802
1/2R0.56
G811
SHORT
R616
2R6.8
R805
1/2R100
C816
220μ
R806
1/2R3.9K
6.7
R822
1/2R10K
GJ26
OPEN
R825
10W10
GJ25
OPEN
R824
10W100
C820
2KV(R1)680
D812
RU4A LF-L1
OR
RU4AM LF-L1
L814
TRF9253D
D808
BYD33J
D809
MTZJ5.6B
R818
1R0.27
R829
1R0.27
R813
1R0.27
SN24322278S
C822
M0.47
C807
OPEN
D815
MTZJ15B
RD15ESB2
UZ15B38
C808
25V330μ
D804
MTZJ6.8B
C819
100V22μ
R614
1.2K
#2-#3
0.8V
GND
0.5V
2V
CAUTION LIVE AREA

C801/C802	
UK MODELS	DD/DG MODELS
RA:24082927B	RA:24082927B
RB:24082363B	RB:24082363B
RC:24082374B	

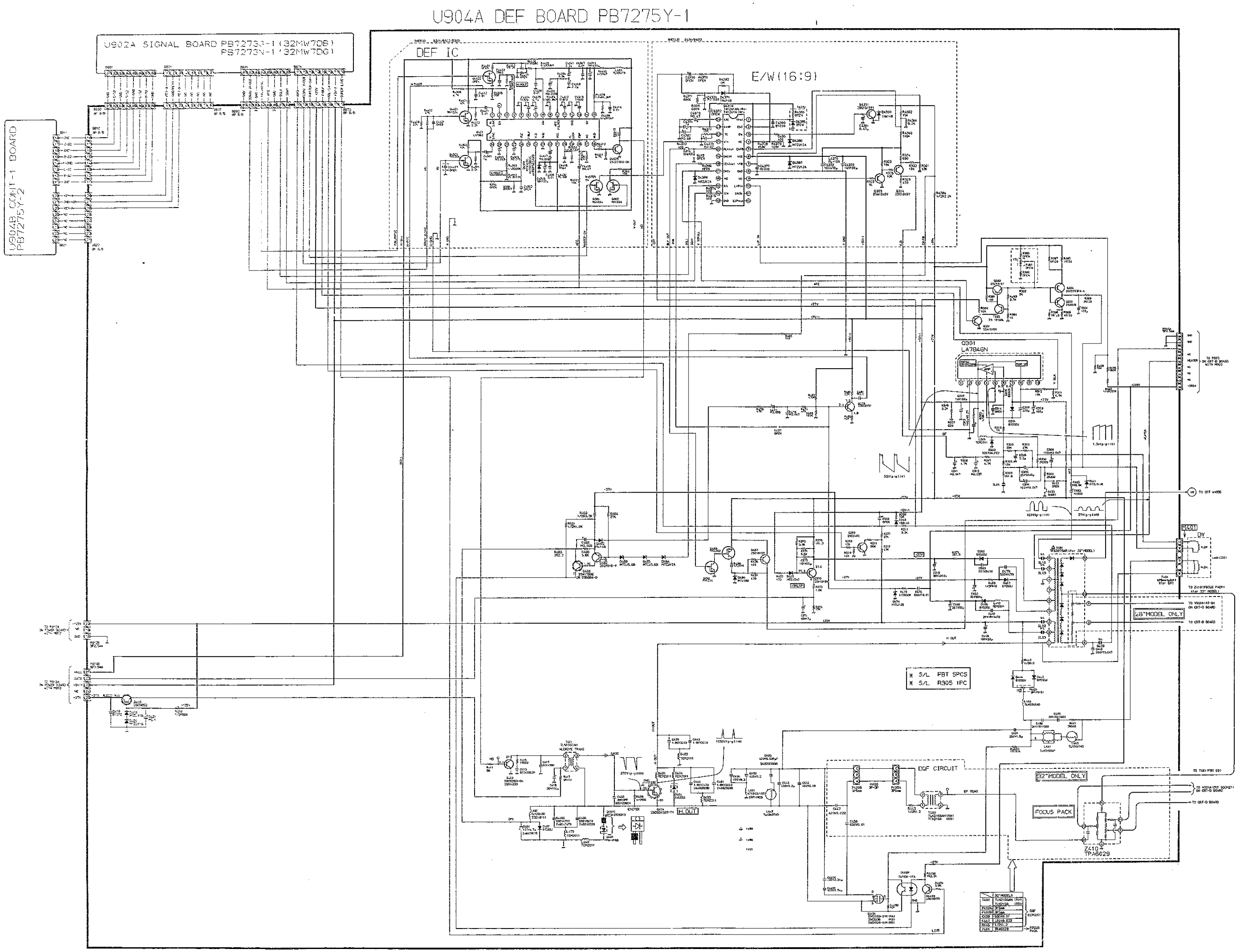

C806
AC250V4700
R810
20W3.0
SN24007492
C810
400V330μF
SN.24086063
⚠ F802
2.5A L/250V
1
2
3
4
6
7
8
9
10
11
12
13
14
15
16
17
18
⚠ F889
5A L/250V
C898
M0.22
C893
2KV(R1)220
L883
TRF9253D
D883
FML-G16S
+125V
C884
160V330μ
35V2200μ or TLN3312D
R101
1W22K
+125V
C899
500VB470
⚠
Z890
PRF50005491
PRF5000F008
L891
TEM2011
D891
FML-G125
C897
35V3300μ
L897
TLN2026 (RA)
TLN3312D (RB)
+8V
⚠
C811
AC250V2200
⚠ C815
AC250V470
L815
TEM2004
C896
500VB470
⚠ Z891
PRF50005491
or PR5000F
L892
TEM2011
D892
FML-G125
C892
35V2200μ
+12V-2
L893
PL-10 (RA)
TLN2026 (RB)
TLN3312D (RC)
R819
1/2R2
R699 ⚠
1R8.2M
7.7
1.1
R828
820
C846
M0.1
D811
1N4148
⚠
Q826
TLP621(GR-LF2)
OR TLP721F(GR-LF2)
R846
560
R827
680
D828
1N4148
R821
100
C833
10μ
+27V
03
68K
R815
1/2R1K
C809
500VB470
D803
BYD33J
D810
1N4148
51
Q802
2SC3852
C821
500VB470
D806
BYD33J
G812
SHORT
R823
2.7K
D805
1N4148
6.7
R822
1/2R10K
8
330μ
D804
MTZJ6.8B
C819
100V22μ
R814
1.2K
C829
M1800
VE AREA

	OTHER
L897	TLN2026 (RA) TLN3312D (RB)
C897	35V3300μF
D891A	RADIATOR SN.23475131

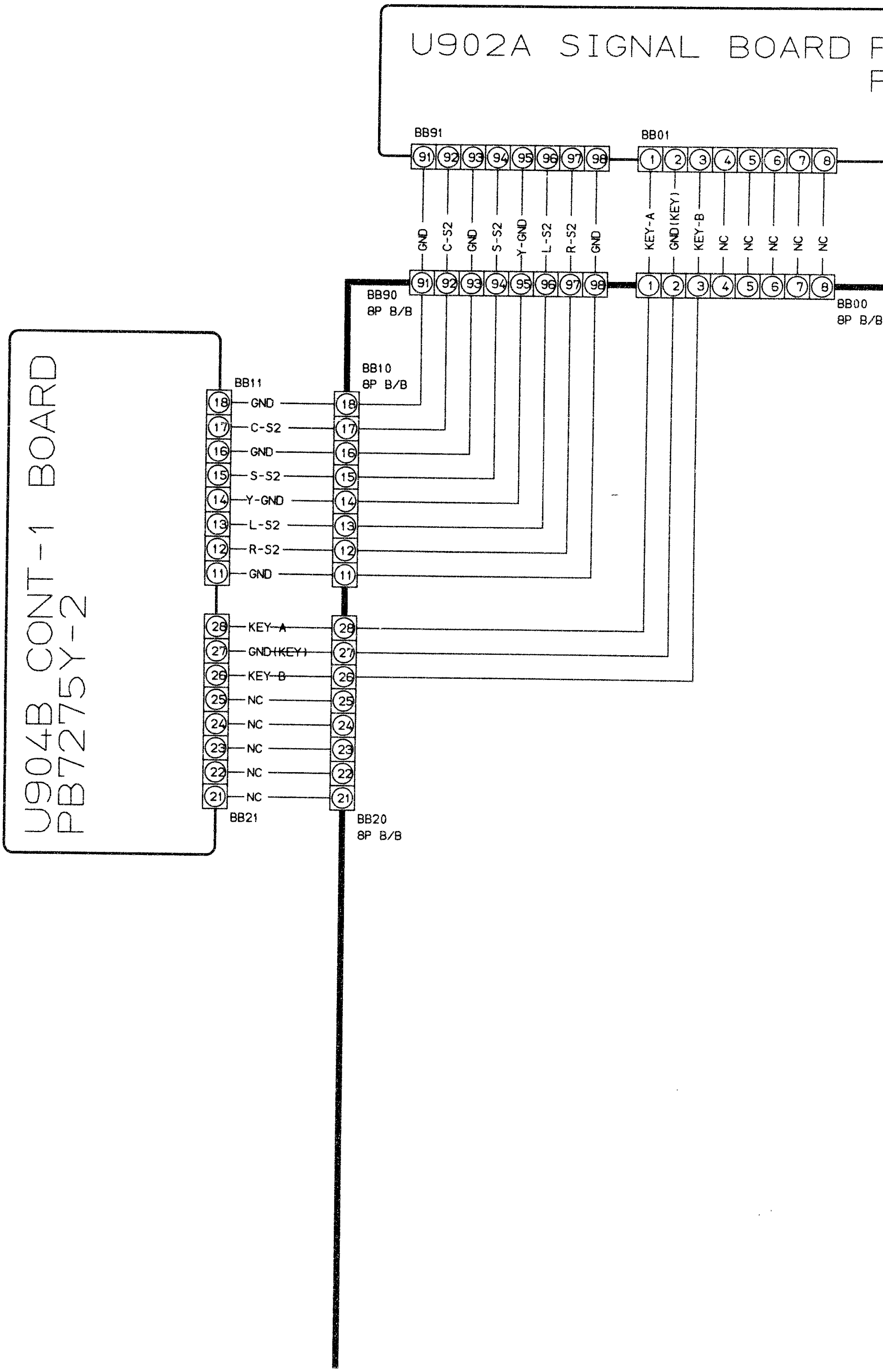

R101
1W22K
+125V
L885
TLN3299D
or
TLN3155D
F470
T1.25A L/250V
SL80
R470
2R0.56
Z801
HIC1016
R471
1/2FR270
R479
1/2FR68
R890
1R33K
C472
M0.47
+B
OCP
Arror Amp
Iz
OCP Filter
GND-1
SUB
Arror Amp
ON/Stand-by
NC
H.Vcc SW
GATE
+5V
Protecter
GND-2
124.5
124.5
26.3
6.2
0
0
0
0.7
10.4
0
5
0
C470
16V22μ
C473
1μ
D371
1N4148
D370
MTZJ3.6A
R842
1/2R3.9K
+12V-2
L893
PL-10 (RA)
TLN2026 (RB)
TLN3312D (RC)
+27V


GND-2
17
D371
N4148
D370
MTZJ3.6A
P812A
3P2.5mm
+125V
18
19
20
GND
NC
+125V
TO P812B
ON DEF BOARD
WITH M812
+12V-2
SL01
GJ27
OPEN
+125V
157
156
155
154
+12V-2
GND
NC
+125V
P701A
4P2.5mm
TO P701
ON CRT-D BOARD
WITH M701
P813A
5P2.5mm
HVcc
GATE
+9V-1
+27V
21
22
23
24
25
HVcc
GATE
+9V-1
GND
+27V
TO P813B
ON DEF BOARD
WITH M813

SCHEMATIC DIAGRAM **MODEL : 32MW7DB** **(3/6)**
32MW7DG

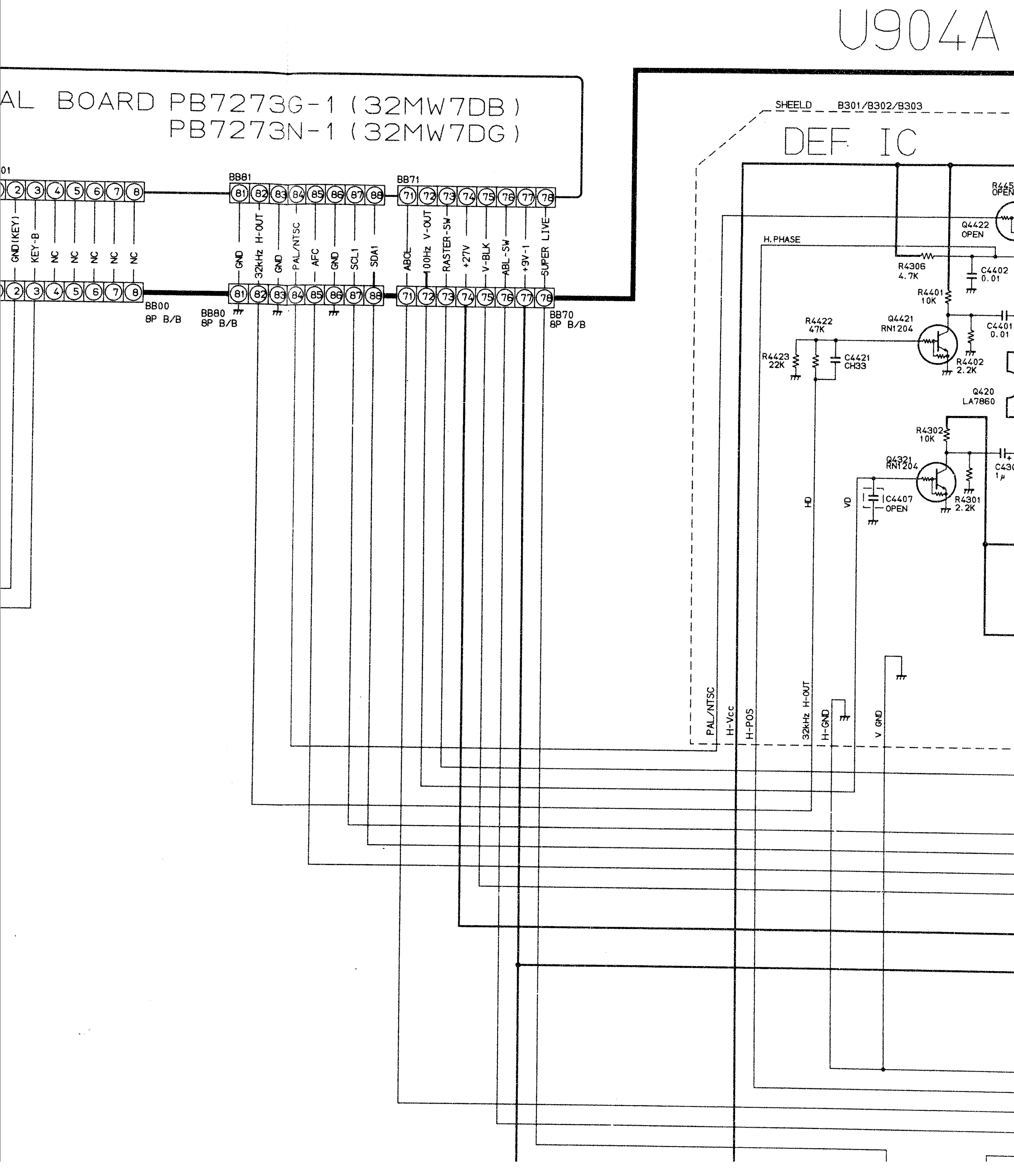

U904A DEF BOARD PB7275Y-1
U902A SIGNAL BOARD PB7273S-1 (32MW7DS)
PB7273V-1 (32MW7DG)
U904B CONT-1 BOARD
PB7275Y-2
DEF IC
E/W (16:9)
Q301
LA7846N
DY
28"MODEL ONLY
※ S/L FBT SPCS
※ S/L R305 1PC
H.OUT
DGF CIRCUIT
32"MODEL ONLY
FOCUS PACK
Z410
TPA6029

SCHEMATIC DIAGRAM MODEL : 32MW7DB 32MW7DG (3/6)


U902A SIGNAL BOARD
BB91
91
92
93
94
95
96
97
98
BB01
1
2
3
4
5
6
7
8
GND
C-S2
GND
S-S2
Y-GND
L-S2
R-S2
GND
KEY-A
GND(KEY)
KEY-B
NC
NC
NC
NC
NC
BB90
8P B/B
BB00
8P B/B
U904B CONT-1 BOARD
PB7275Y-2
BB11
BB10
8P B/B
18
17
16
15
14
13
12
11
28
27
26
25
24
23
22
21
BB21
BB20
8P B/B

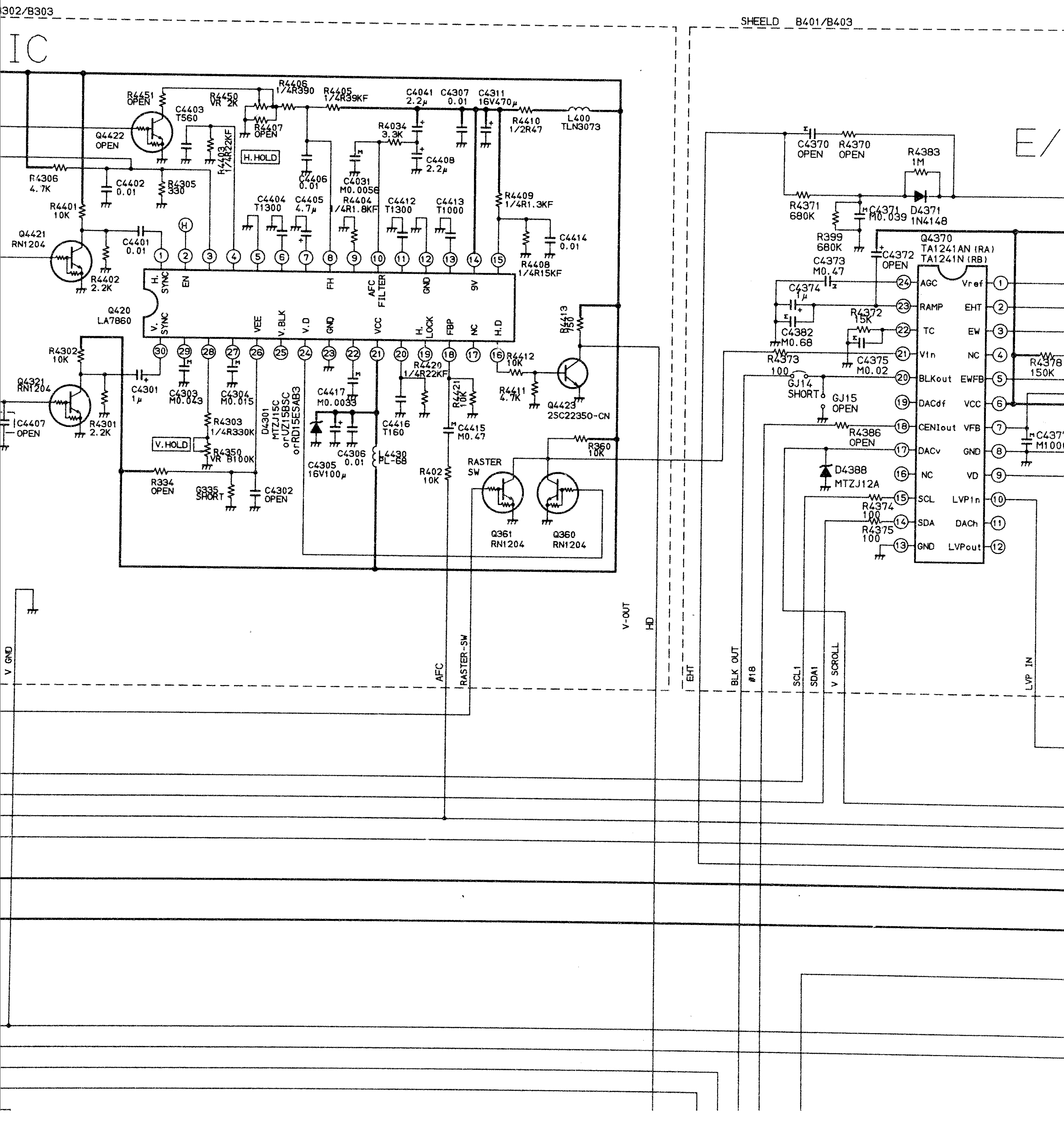
B (3/6)

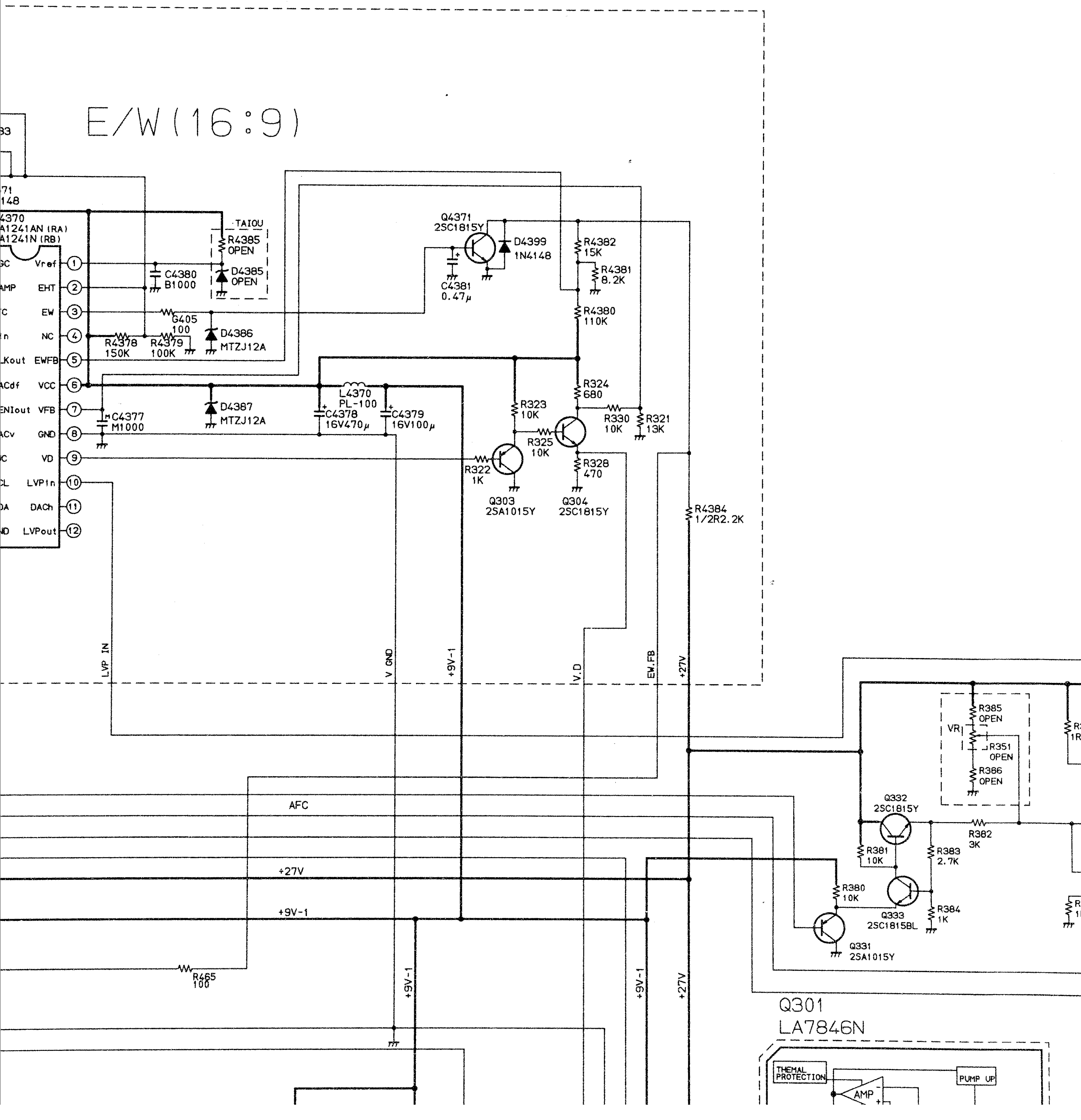
G

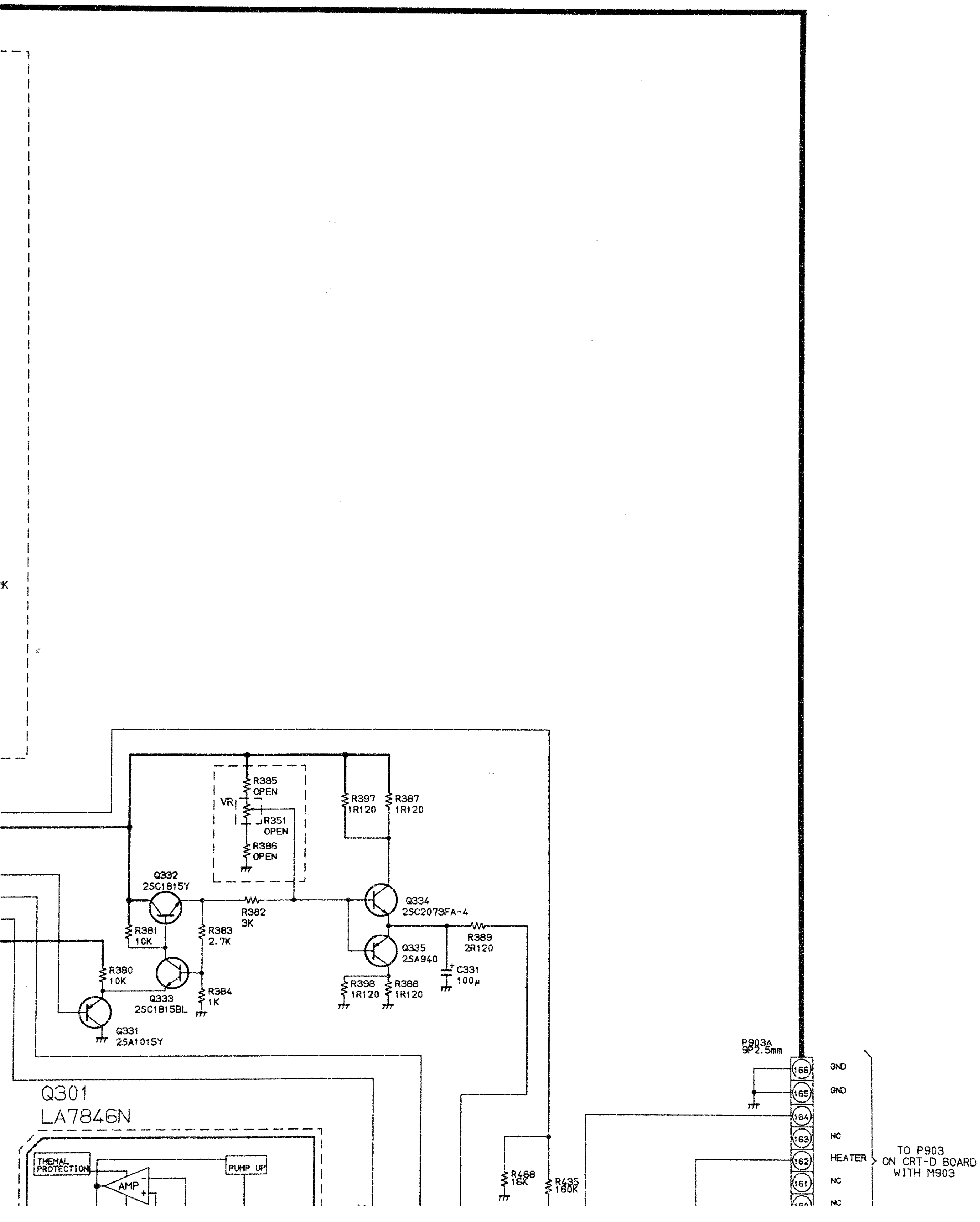


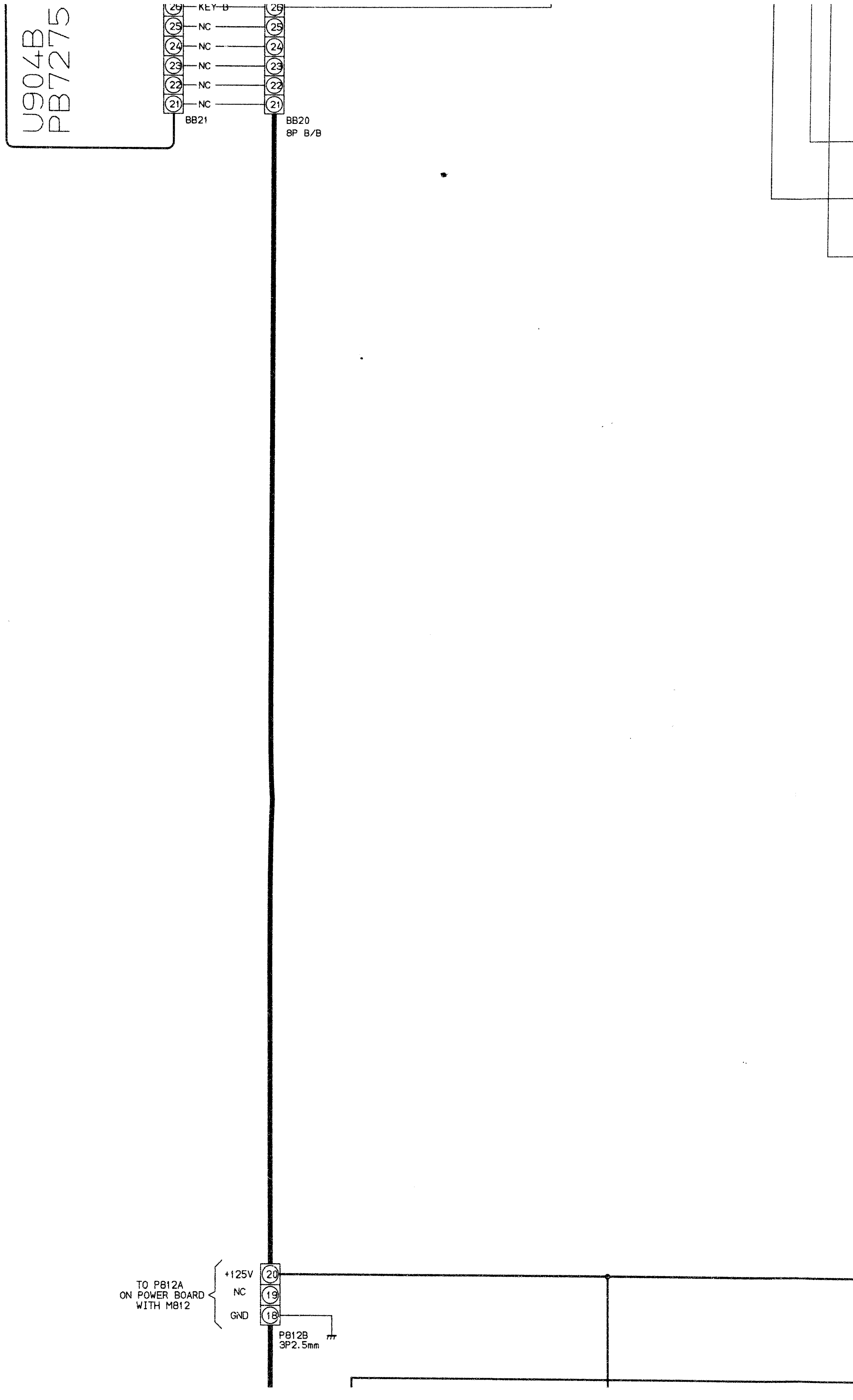
U904A
AL BOARD PB7273G-1 (32MW7DB)
PB7273N-1 (32MW7DG)
01
BB81
BB71
GND(KEY1)
KEY-B
NC
NC
NC
NC
NC
GND
32kHz H-OUT
GND
PAL/NTSC
AFC
GND
SCL1
SDA1
ABCL
100Hz V-OUT
RASTER-SW
+27V
V-BLK
ABL-SW
+9V-1
SUPER LIVE
BB00
8P B/B
BB80
8P B/B
BB70
8P B/B
SHEELD
B301/B302/B303
DEF IC
R445
OPEN
Q4422
OPEN
H.PHASE
R4306
4.7K
C4402
0.01
R4401
10K
R4422
47K
Q4421
RN1204
C4401
0.01
R4423
22K
C4421
CH33
R4402
2.2K
Q420
LA7860
R4302
10K
Q4321
RN1204
C430
1μ
HD
VD
C4407
OPEN
R4301
2.2K
PAL/NTSC
H-Vcc
H-POS
32kHz H-OUT
H-GND
V GND

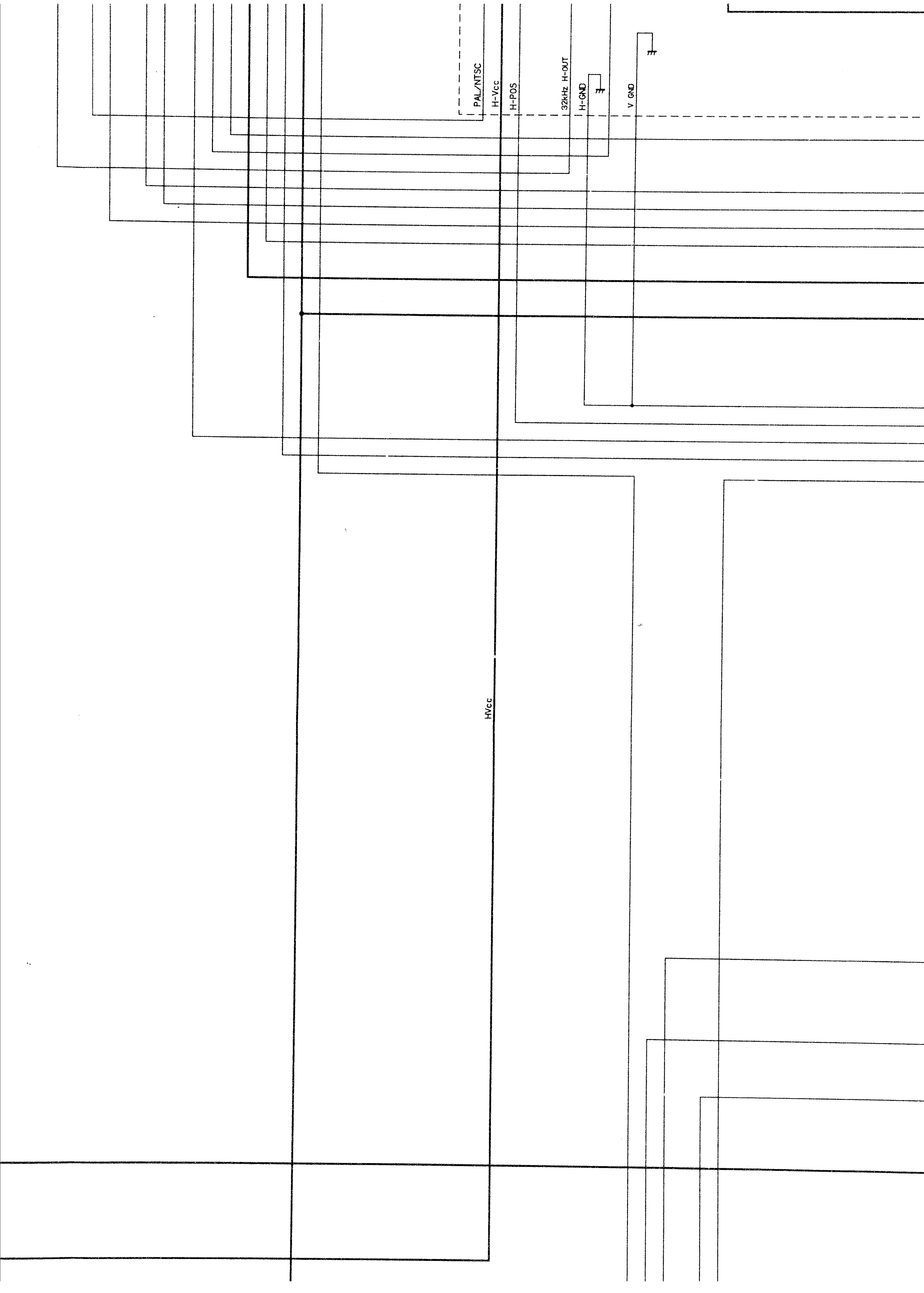
904A DEF BOARD PB7275Y-1

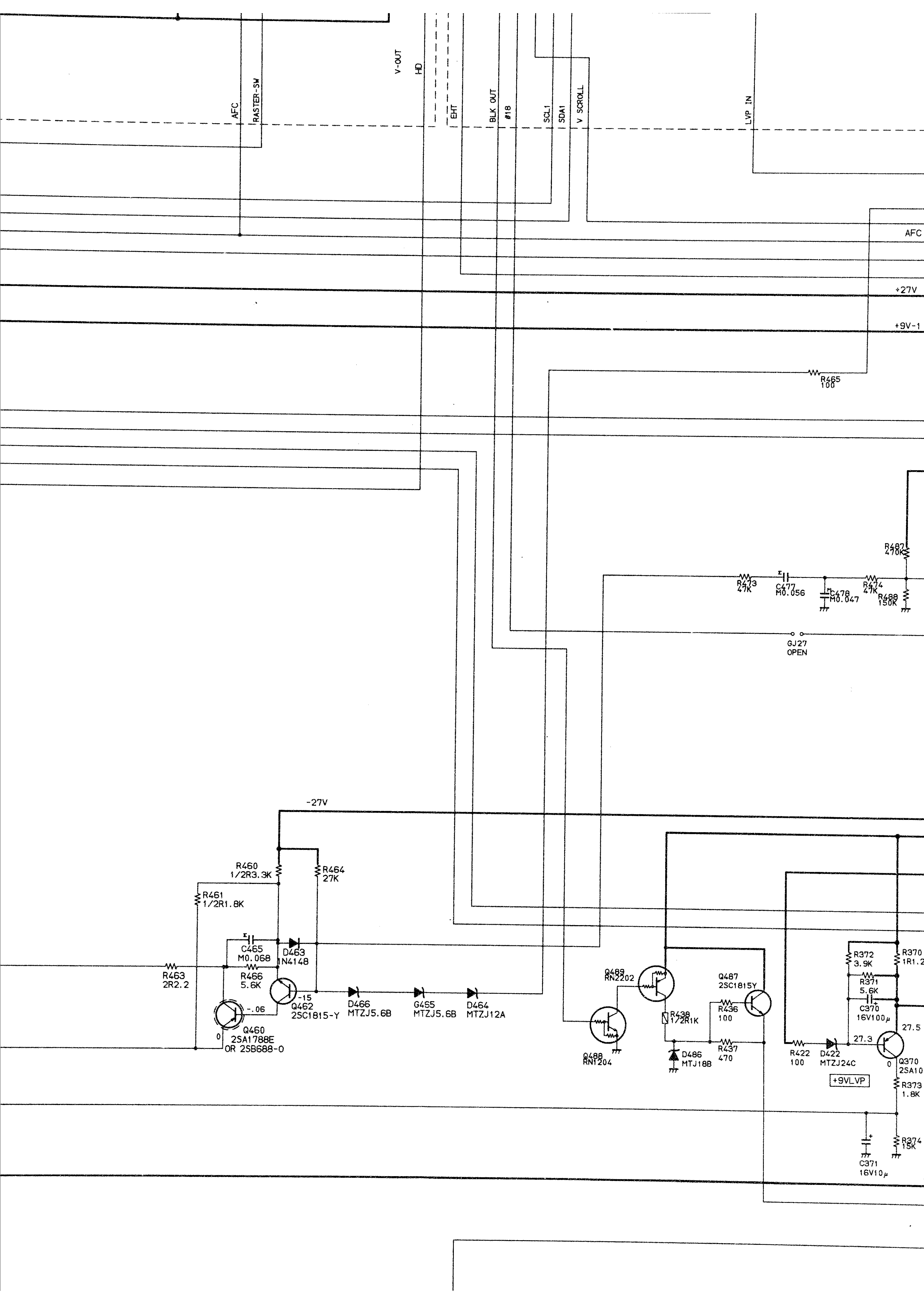

302/B303
IC
SHEELD B401/B403
E/
R4451 OPEN
Q4422 OPEN
R4450 VR 2K
C4403 T560
R4406 1/4R390
R4407 OPEN
R4403 1/4R22KF
H.HOLD
R4405 1/4R39KF
C4041 2.2μ
C4307 0.01
C4311 16V470μ
R4410 1/2R47
L400 TLN3073
R4034 3.3K
C4408 2.2μ
C4406 0.01
C4031 M0.0056
R4306 4.7K
C4402 0.01
R4305 330
R4401 10K
Q4421 RN1204
C4401 0.01
R4402 2.2K
C4404 T1300
C4405 4.7μ
R4404 1/4R1.8KF
C4412 T1300
C4413 T1000
R4409 1/4R1.3KF
C4414 0.01
R4408 1/4R15KF
H. SYNC
EN
FH
AFC FILTER
GND
9V
V. SYNC
VEE
V.BLK
V.D
VCC
H. LOCK
FBP
NC
H.D
Q420 LA7860
R4413 150
R4302 10K
Q4321 RN1204
C4301 1μ
R4301 2.2K
C4407 OPEN
C4303 M0.043
C4304 M0.015
R4303 1/4R330K
V.HOLD
R4350 VR B100K
D4301 MTZJ15C or UZ15BSC or RD15ESAB3
C4417 M0.0033
C4305 16V100μ
C4306 0.01
C4416 T160
L4430 PL-68
R4420 1/4R22KF
R4421 10K
C4415 M0.47
R402 10K
R4412 10K
R4411 4.7K
Q4423 2SC22350-CN
R360 10K
RASTER SW
Q361 RN1204
Q360 RN1204
R334 OPEN
G335 SHORT
C4302 OPEN
V GND
AFC
RASTER-SW
V-OUT
HD
EHT
BLK OUT
#18
SCL1
SDA1
V SCROLL
LVP IN
C4370 OPEN
R4370 OPEN
R4383 1M
R4371 680K
C4371 M0.039
D4371 1N4148
R399 680K
Q4370 TA1241AN (RA) TA1241N (RB)
C4372 OPEN
C4373 M0.47
C4374 1μ
C4382 M0.68
R4372 15K
R4373 100
C4375 M0.02
GJ14 SHORT
GJ15 OPEN
R4386 OPEN
D4388 MTZJ12A
R4374 100
R4375 100
AGC
RAMP
TC
Vin
BLKout
DACdf
CENIout
DACv
NC
SCL
SDA
GND
Vref
EHT
EW
NC
EWFB
VCC
VFB
GND
VD
LVPin
DACh
LVPout
R4378 150K
C437 M100

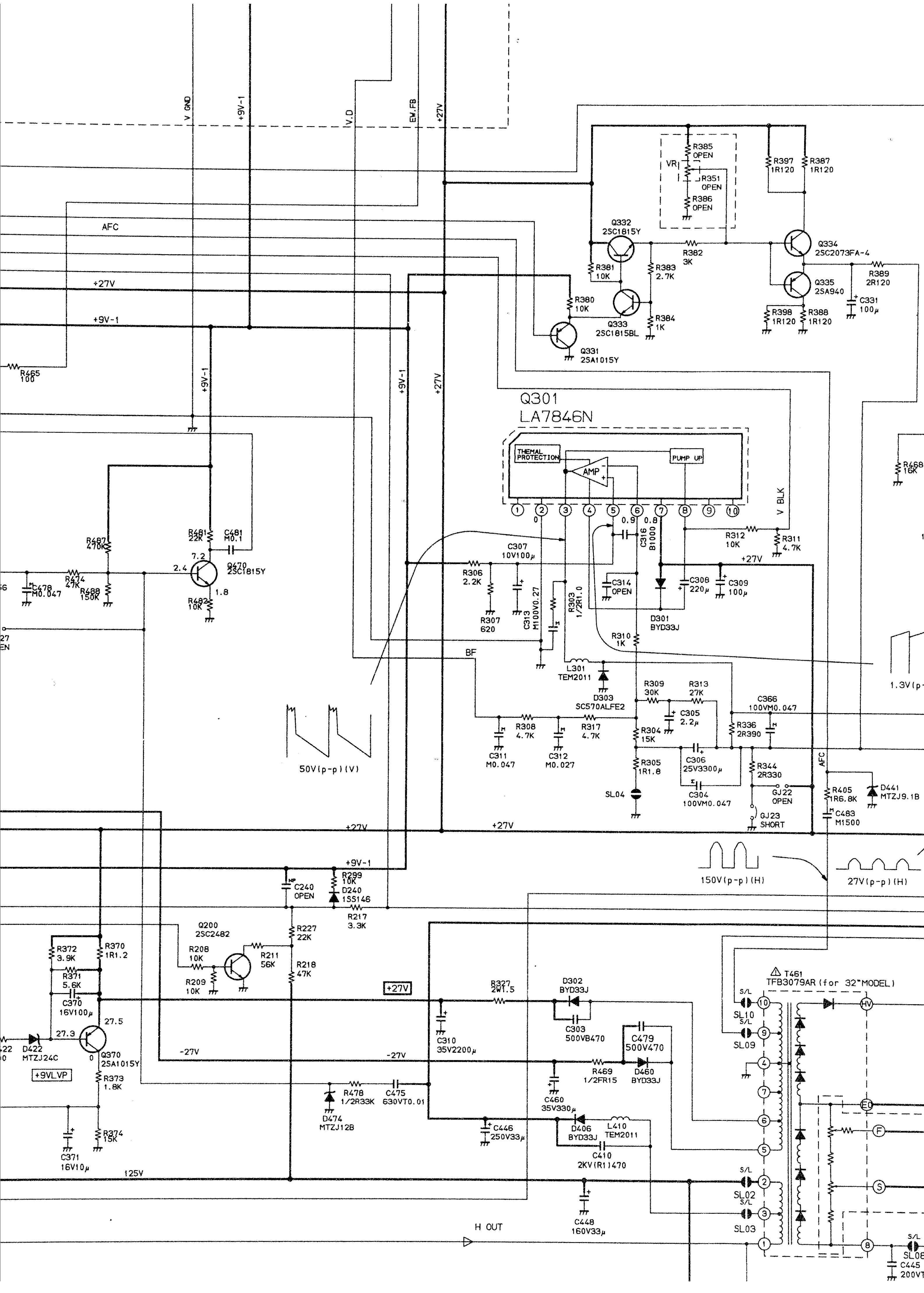
E/W(16:9)
33
71
148
4370
A1241AN(RA)
A1241N(RB)
GC
AMP
C
n
LKout
ACdf
ENIout
ACv
C
CL
DA
ND
Vref
EHT
EW
NC
EWFB
VCC
VFB
GND
VD
LVPin
DACh
LVPout
1
2
3
4
5
6
7
8
9
10
11
12
TAIOU
R4385
OPEN
D4385
OPEN
C4380
B1000
G405
100
D4386
MTZJ12A
R4378
150K
R4379
100K
D4387
MTZJ12A
C4377
M1000
L4370
PL-100
C4378
16V470μ
C4379
16V100μ
Q4371
2SC1815Y
D4399
1N4148
C4381
0.47μ
R4382
15K
R4381
8.2K
R4380
110K
R324
680
R323
10K
R330
10K
R321
13K
R325
10K
R322
1K
R328
470
Q303
2SA1015Y
Q304
2SC1815Y
R4384
1/2R2.2K
LVP IN
V GND
+9V-1
V.D
EW.FB
+27V
AFC
+27V
+9V-1
R465
100
+9V-1
+9V-1
+27V
R385
OPEN
VR
R351
OPEN
R386
OPEN
Q332
2SC1815Y
R382
3K
R381
10K
R383
2.7K
R380
10K
Q333
2SC1815BL
R384
1K
Q331
2SA1015Y
Q301
LA7846N
THEMAL
PROTECTION
AMP
PUMP UP

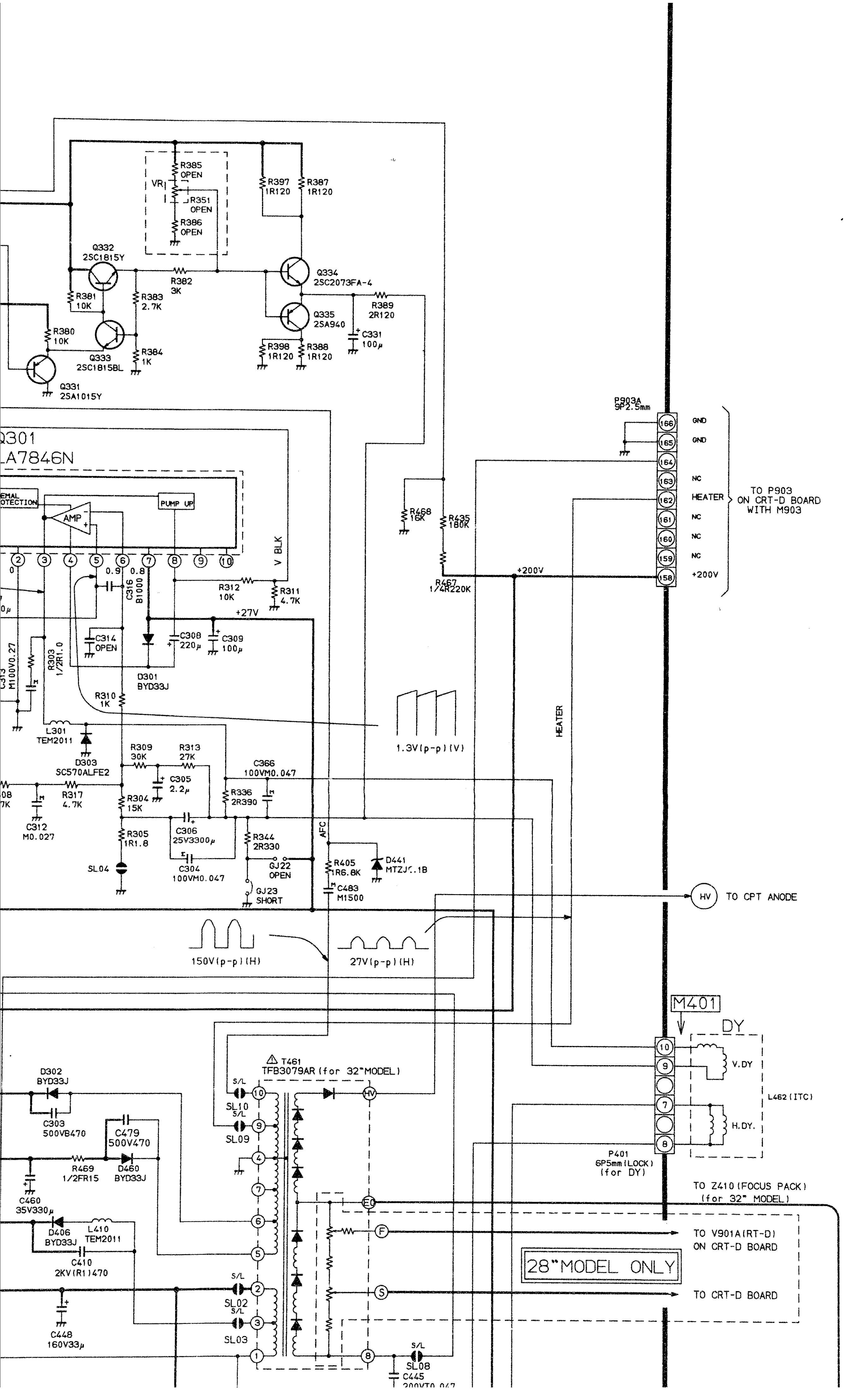

K
R385
OPEN
VR
R351
OPEN
R386
OPEN
R397
1R120
R387
1R120
Q332
2SC1815Y
R382
3K
Q334
2SC2073FA-4
R381
10K
R383
2.7K
R389
2R120
Q335
2SA940
R380
10K
C331
100µ
Q333
2SC1815BL
R384
1K
R398
1R120
R388
1R120
Q331
2SA1015Y
P903A
9P2.5mm
166
GND
165
GND
164
163
NC
162
HEATER
161
NC
NC
TO P903
ON CRT-D BOARD
WITH M903
Q301
LA7846N
THEMAL
PROTECTION
AMP
PUMP UP
R468
16K
R435
180K

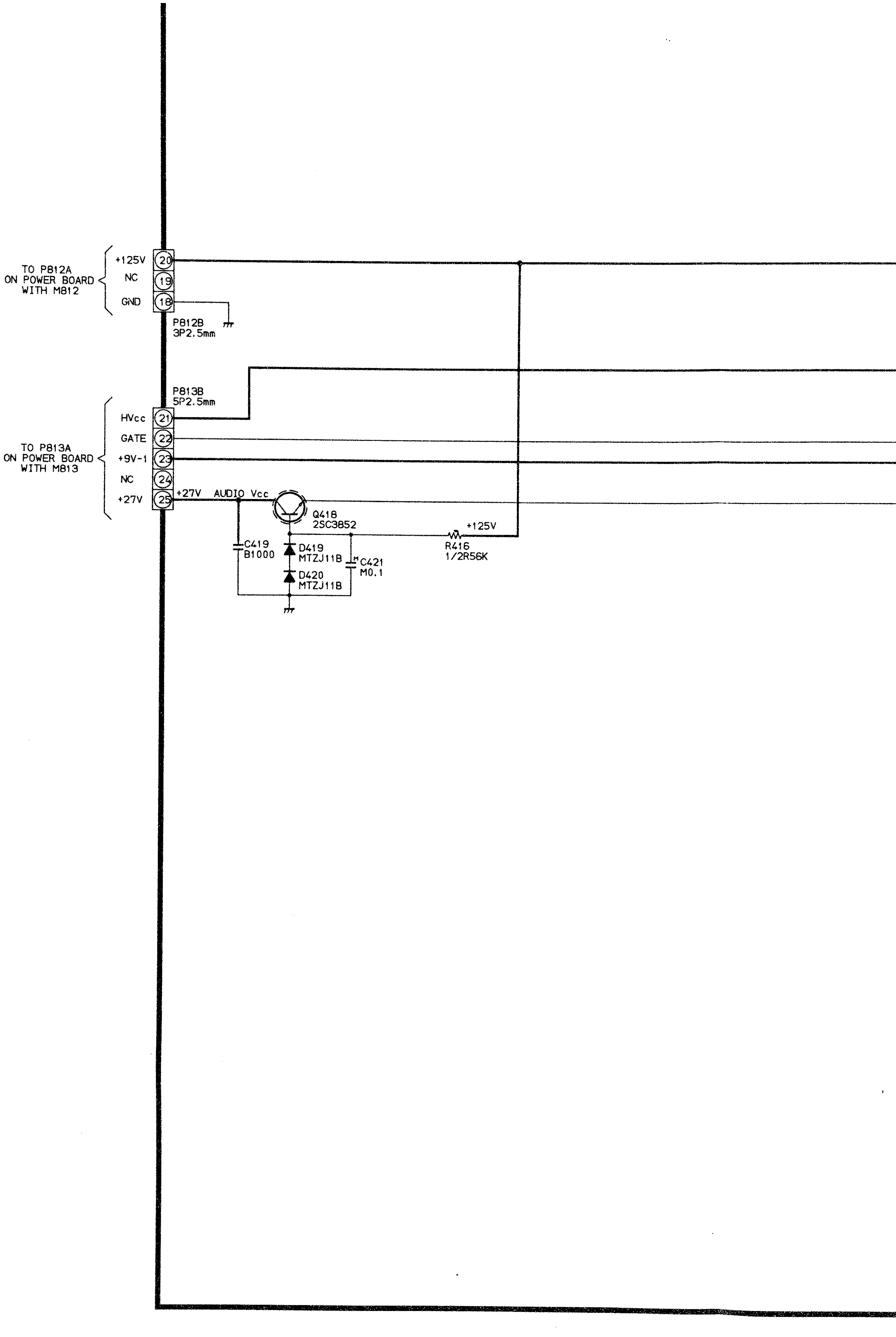

U904B
PB7275
26
KEY B
25
NC
24
NC
23
NC
22
NC
21
NC
BB21
BB20
8P B/B
TO P812A
ON POWER BOARD
WITH M812
+125V
20
NC
19
GND
18
P812B
3P2.5mm

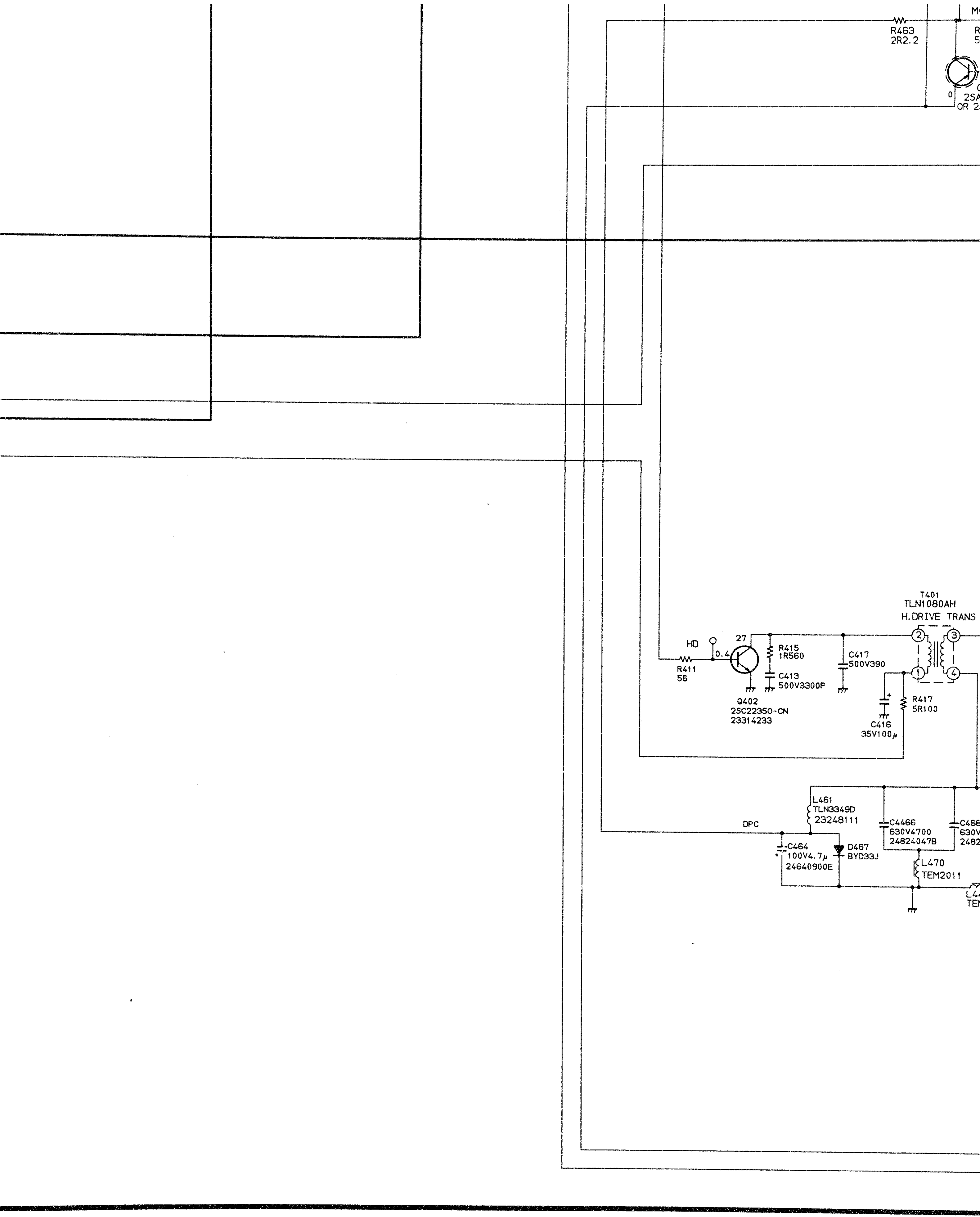

PAL/NTSC
H-Vcc
H-POS
32kHz H-OUT
H-GND
V GND
HVcc

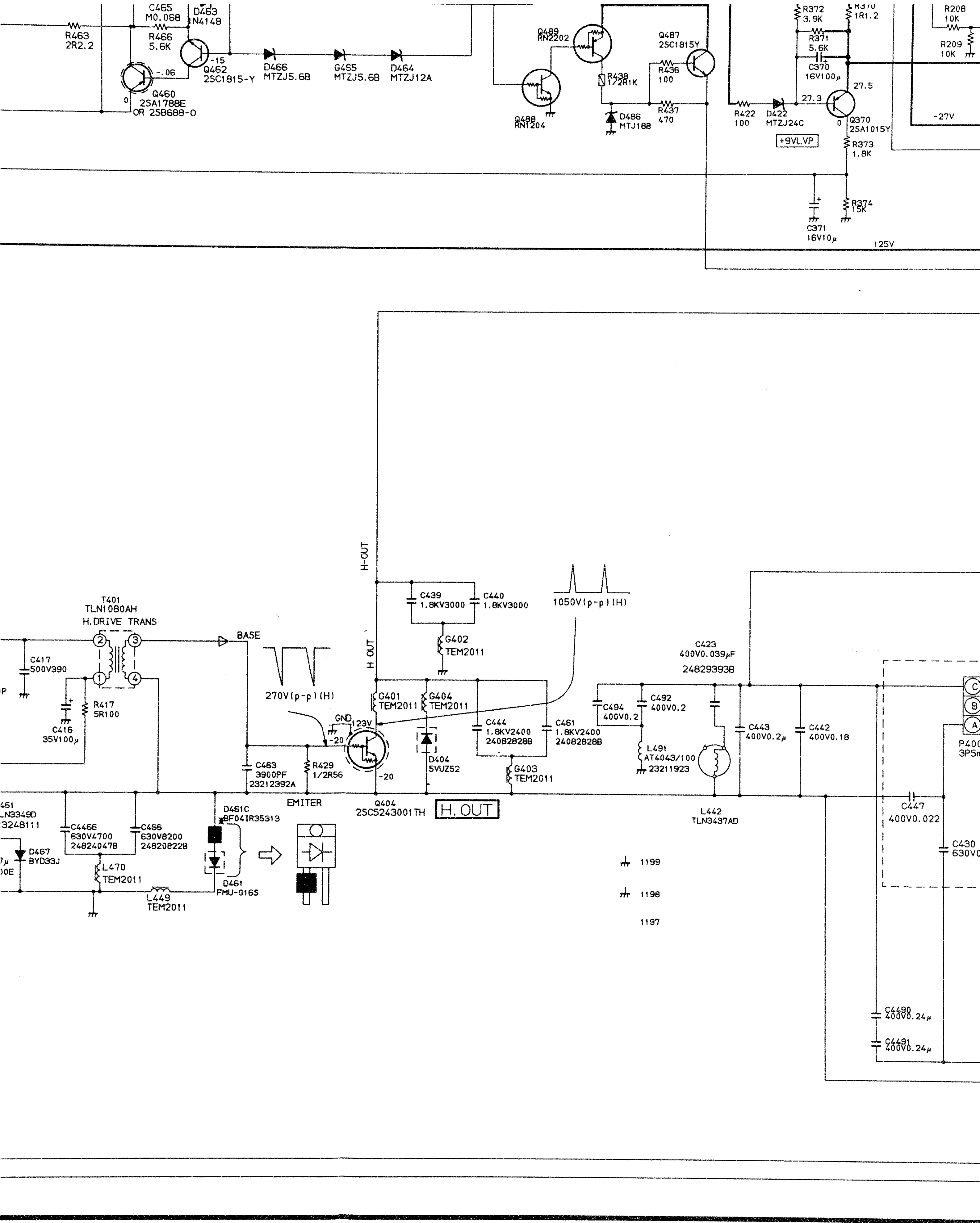

AFC
RASTER-SW
V-OUT
HD
EHT
BLK OUT
#18
SCL1
SDA1
V SCROLL
LVP IN
AFC
+27V
+9V-1
R465 100
R487 470K
R473 47K
C477 M0.056
C478 M0.047
R474 47K
R488 150K
GJ27 OPEN
-27V
R460 1/2R3.3K
R464 27K
R461 1/2R1.8K
C465 M0.068
D463 1N4148
R463 2R2.2
R466 5.6K
-15
-.06
Q462 2SC1815-Y
Q460 2SA1788E OR 2SB688-O
0
D466 MTZJ5.6B
G4S5 MTZJ5.6B
D464 MTZJ12A
Q489 RN2202
Q488 RN1204
R438 1/2R1K
D486 MTJ18B
Q487 2SC1815Y
R436 100
R437 470
R372 3.9K
R370 1R1.2
R371 5.6K
C370 16V100μ
27.5
27.3
R422 100
D422 MTZJ24C
0
Q370 2SA10
+9VLVP
R373 1.8K
C371 16V10μ
R374 15K

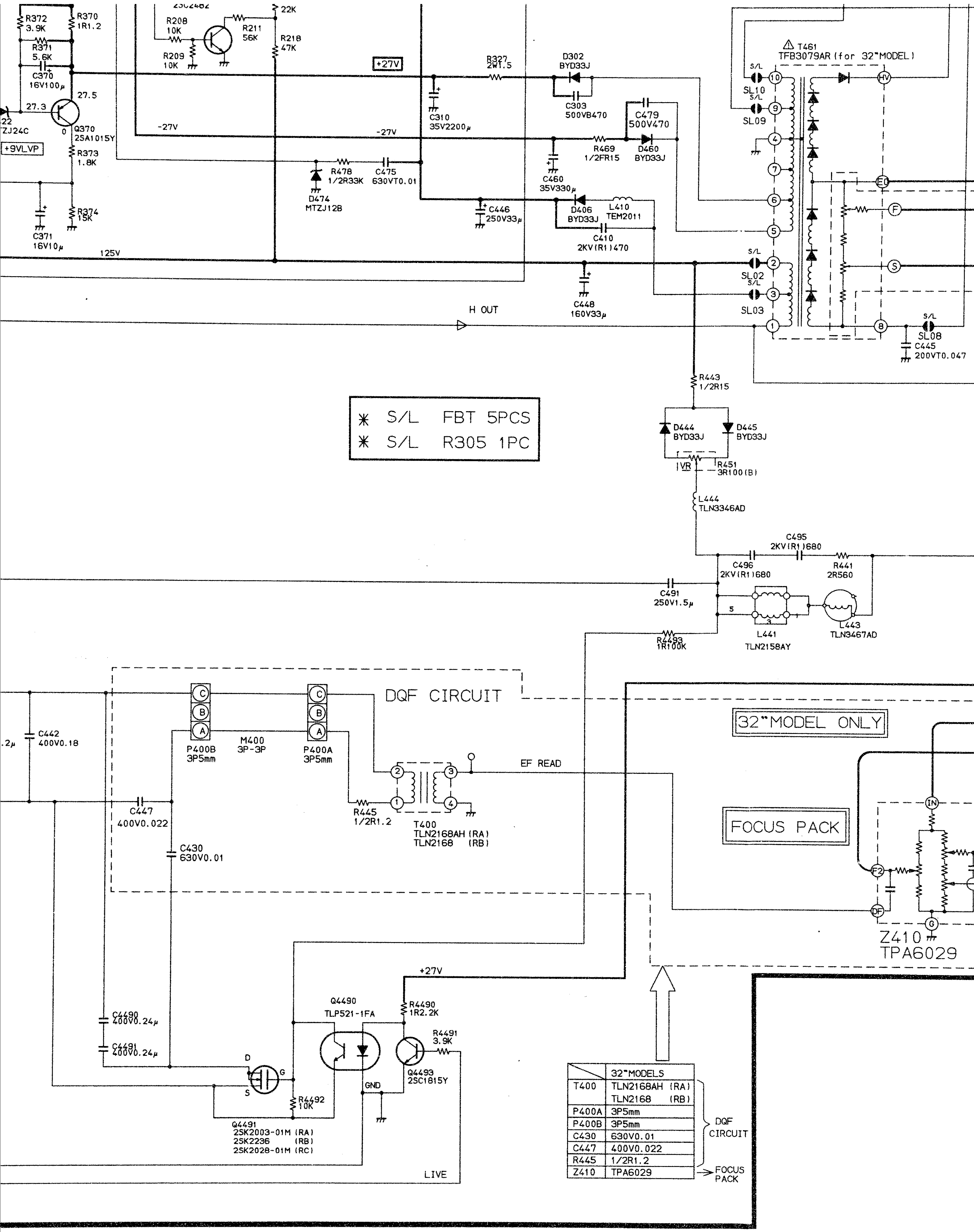

V GND
+9V-1
V.D
EW.FB
+27V
AFC
+27V
+9V-1
R465
100
R385
OPEN
VR
R351
OPEN
R386
OPEN
R397
1R120
R387
1R120
Q332
2SC1815Y
R382
3K
Q334
2SC2073FA-4
R381
10K
R383
2.7K
Q335
2SA940
R389
2R120
R380
10K
Q333
2SC1815BL
R384
1K
R398
1R120
R388
1R120
C331
100µ
Q331
2SA1015Y
+9V-1
+27V
+9V-1
Q301
LA7846N
THEMAL PROTECTION
AMP
PUMP UP
V BLK
1 2 3 4 5 6 7 8 9 10
0
0.9
0.8
R468
16K
R487
470K
R481
22K
C481
M0.1
7.2
2.4
Q470
2SC1815Y
1.8
R482
10K
C478
M0.047
R474
47K
R488
150K
27
EN
C307
10V100µ
R306
2.2K
R307
620
C313
M100V0.27
R303
1/2R1.0
C316
B1000
C314
OPEN
C308
220µ
C309
100µ
D301
BYD33J
R312
10K
R311
4.7K
+27V
R310
1K
1.3V(p-
BF
L301
TEM2011
D303
SC570ALFE2
R309
30K
R313
27K
C305
2.2µ
C366
100VM0.047
R336
2R390
C311
M0.047
R308
4.7K
C312
M0.027
R317
4.7K
R304
15K
C306
25V3300µ
R305
1R1.8
R344
2R330
AFC
R405
1R6.8K
D441
MTZJ9.1B
SL04
C304
100VM0.047
GJ22
OPEN
GJ23
SHORT
C483
M1500
50V(p-p)(V)
+27V
+27V
+9V-1
150V(p-p)(H)
27V(p-p)(H)
C240
OPEN
R299
10K
D240
1SS146
R217
3.3K
Q200
2SC2482
R227
22K
R208
10K
R211
56K
R209
10K
R218
47K
R372
3.9K
R370
1R1.2
R371
5.6K
C370
16V100µ
27.5
27.3
D422
MTZJ24C
0
Q370
2SA1015Y
+9VLVP
R373
1.8K
C371
16V10µ
R374
15K
22
+27V
R327
2W1.5
D302
BYD33J
C303
500VB470
C310
35V2200µ
-27V
-27V
C479
500V470
R469
1/2FR15
D460
BYD33J
C460
35V330µ
R478
1/2R33K
C475
630VT0.01
D474
MTZJ12B
C446
250V33µ
D406
BYD33J
L410
TEM2011
C410
2KV(R1)470
125V
C448
160V33µ
H OUT
⚠ T461
TFB3079AR (for 32"MODEL)
S/L
SL10
S/L
SL09
SL02
SL03
S/L
10 9 4 7 6 5 2 3 1 8
HV
EC
F
S
S/L
SL06
C445
200VT


R385
OPEN
VR
R351
OPEN
R386
OPEN
R397
1R120
R387
1R120
Q332
2SC1815Y
R382
3K
Q334
2SC2073FA-4
R381
10K
R383
2.7K
R389
2R120
Q335
2SA940
R380
10K
C331
100μ
R398
1R120
R388
1R120
R384
1K
Q333
2SC1815BL
Q331
2SA1015Y
Q301
LA7846N
PUMP UP
AMP
V BLK
0.9
0.8
C316
B1000
R312
10K
R311
4.7K
+27V
C314
OPEN
C308
220μ
C309
100μ
M100V0.27
R303
1/2R1.0
D301
BYD33J
R310
1K
1.3V(p-p)(V)
L301
TEM2011
D303
SC570ALFE2
R309
30K
R313
27K
C366
100VM0.047
C305
2.2μ
R317
4.7K
R304
15K
R336
2R390
C312
M0.027
R305
1R1.8
C306
25V3300μ
R344
2R330
AFC
R405
1R6.8K
D441
MTZJ.1B
C304
100VM0.047
GJ22
OPEN
C483
M1500
SL04
GJ23
SHORT
150V(p-p)(H)
27V(p-p)(H)
P903A
9P2.5mm
GND
GND
NC
HEATER
NC
NC
NC
+200V
166
165
164
163
162
161
160
159
158
TO P903
ON CRT-D BOARD
WITH M903
R468
16K
R435
180K
R467
1/4R220K
+200V
HEATER
HV
TO CPT ANODE
M401
DY
V.DY
L462(ITC)
H.DY.
P401
6P5mm(LOCK)
(for DY)
D302
BYD33J
C303
500VB470
C479
500V470
R469
1/2FR15
D460
BYD33J
C460
35V330μ
D406
BYD33J
L410
TEM2011
C410
2KV(R1)470
C448
160V33μ
T461
TFB3079AR (for 32"MODEL)
S/L
SL10
SL09
SL02
SL03
SL08
C445
200VT0.047
HV
EC
F
S
TO Z410(FOCUS PACK)
(for 32" MODEL)
TO V901A(RT-D)
ON CRT-D BOARD
28"MODEL ONLY
TO CRT-D BOARD


TO P812A
ON POWER BOARD
WITH M812
+125V
NC
GND
20
19
18
P812B
3P2.5mm
P813B
5P2.5mm
TO P813A
ON POWER BOARD
WITH M813
HVcc
GATE
+9V-1
NC
+27V
21
22
23
24
25
+27V
AUDIO Vcc
Q418
2SC3852
+125V
R416
1/2R56K
C419
B1000
D419
MTZJ11B
D420
MTZJ11B
C421
M0.1

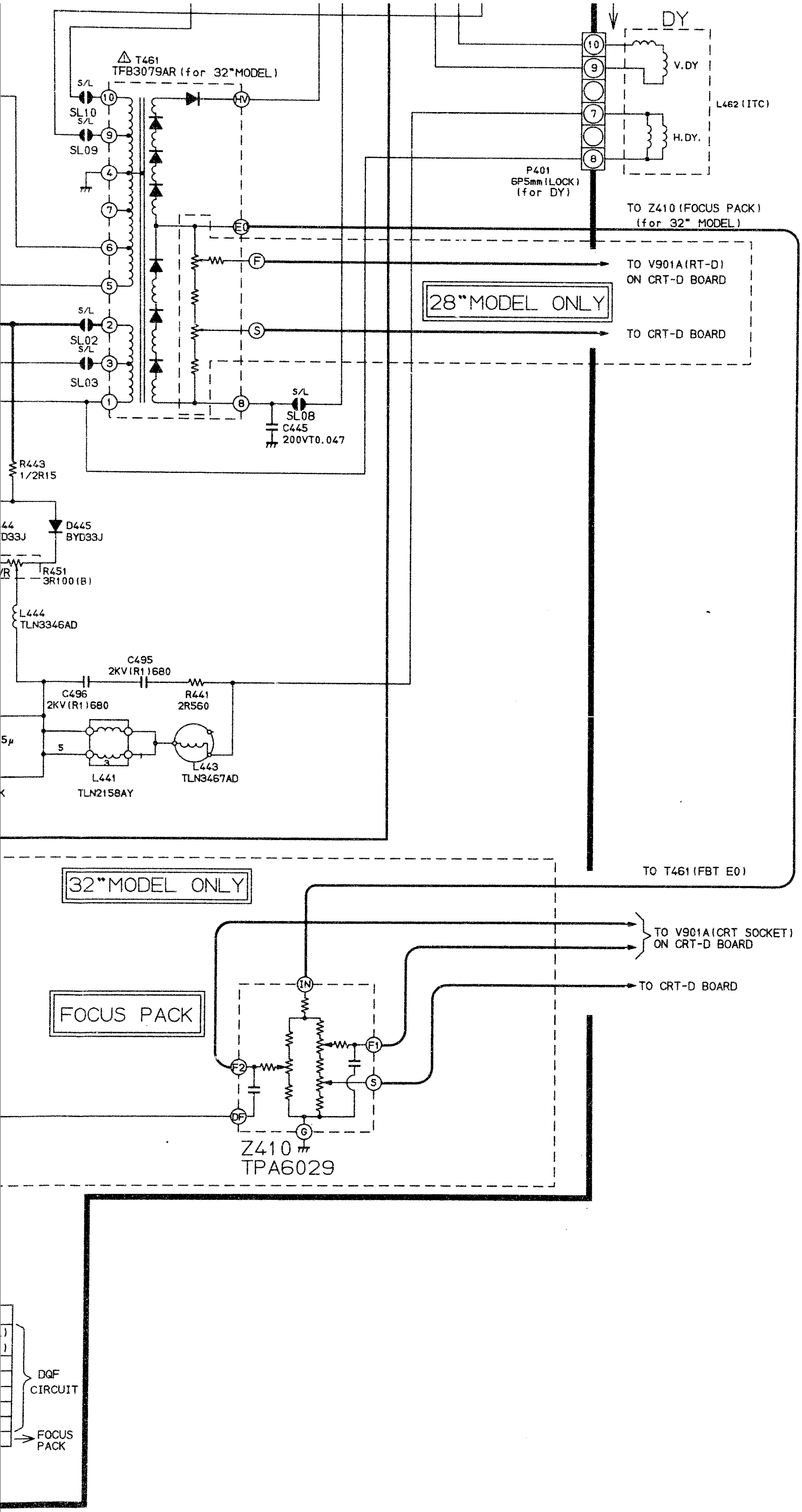

R463
2R2.2
0
HD
0.4
27
R411
56
R415
1R560
C413
500V3300P
Q402
2SC22350-CN
23314233
C417
500V390
T401
TLN1080AH
H.DRIVE TRANS
2
3
1
4
C416
35V100μ
R417
5R100
L461
TLN3349D
23248111
DPC
C464
100V4.7μ
24640900E
D467
BYD33J
C4466
630V4700
24824047B
L470
TEM2011


R463
2R2.2
C465
M0.068
D463
1N4148
R466
5.6K
-15
Q462
2SC1815-Y
-.06
Q460
2SA1788E
OR 2SB688-O
0
D466
MTZJ5.6B
G465
MTZJ5.6B
D464
MTZJ12A
Q489
RN2202
Q488
RN1204
R438
1/2R1K
D486
MTJ18B
Q487
2SC1815Y
R436
100
R437
470
R372
3.9K
R370
1R1.2
R371
5.6K
C370
16V100μ
27.5
27.3
R422
100
D422
MTZJ24C
Q370
2SA1015Y
0
+9VLVP
R373
1.8K
R374
15K
C371
16V10μ
R208
10K
R209
10K
-27V
125V
H-OUT
H OUT
T401
TLN1080AH
H.DRIVE TRANS
②
③
①
④
BASE
C417
500V390
P
C416
35V100μ
R417
5R100
270V(p-p)(H)
GND
123V
-20
-20
R429
1/2R56
C463
3900PF
23212392A
EMITER
Q404
2SC5243001TH
H. OUT
C439
1.8KV3000
C440
1.8KV3000
G402
TEM2011
1050V(p-p)(H)
G401
TEM2011
G404
TEM2011
D404
5VUZ52
C444
1.8KV2400
24082828B
C461
1.8KV2400
24082828B
G403
TEM2011
C423
400V0.039μF
24829393B
C494
400V0.2
C492
400V0.2
L491
AT4043/100
23211923
C443
400V0.2μ
C442
400V0.18
L442
TLN3437AD
Ⓒ
Ⓑ
Ⓐ
P400
3P5m
C447
400V0.022
C430
630V0
C4490
400V0.24μ
C4491
400V0.24μ
461
TLN3349D
23248111
D467
BYD33J
7μ
00E
C4466
630V4700
24824047B
C466
630V8200
24820822B
L470
TEM2011
L449
TEM2011
D461C
BF04IR35313
D461
FMU-G16S
1199
1198
1197

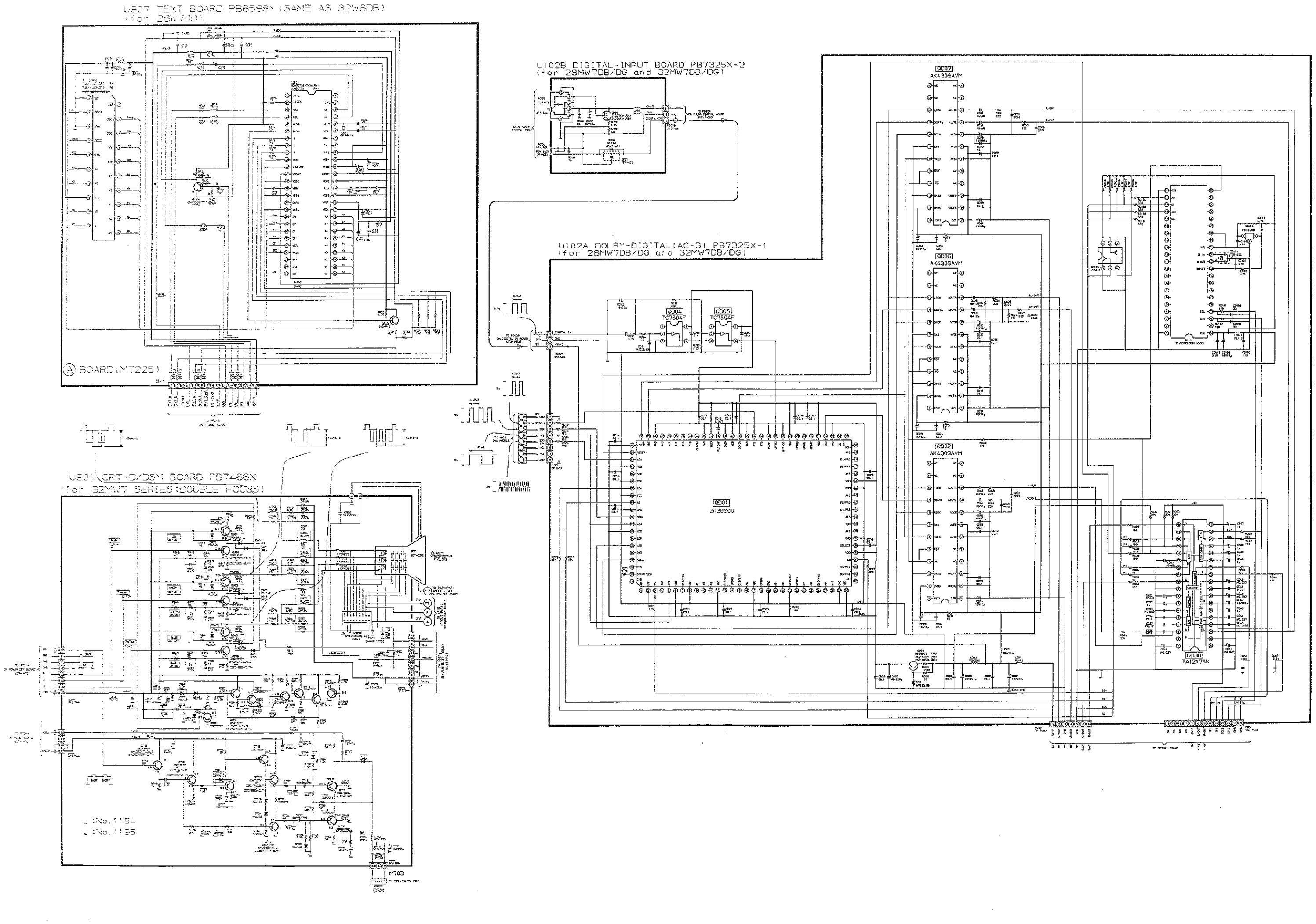

R372
3.9K
R370
1R1.2
R371
5.6K
C370
16V100μ
27.5
27.3
22
ZJ24C
Q370
2SA1015Y
0
+9VL.VP
R373
1.8K
R374
15K
C371
16V10μ
125V
R208
10K
R209
10K
R211
56K
22K
R218
47K
+27V
R327
2W1.5
D302
BYD33J
C303
500VB470
-27V
-27V
C310
35V2200μ
R478
1/2R33K
C475
630VT0.01
D474
MTZJ12B
C446
250V33μ
C460
35V330μ
R469
1/2FR15
D460
BYD33J
C479
500V470
D406
BYD33J
L410
TEM2011
C410
2KV(R1)470
C448
160V33μ
H OUT
T461
TFB3079AR (for 32"MODEL)
S/L
SL10
SL09
SL02
SL03
SL08
HV
EC
F
S
C445
200VT0.047
R443
1/2R15
D444
BYD33J
D445
BYD33J
VR
R451
3R100(B)
L444
TLN3346AD
C495
2KV(R1)680
C496
2KV(R1)680
R441
2R560
C491
250V1.5μ
L441
TLN2158AY
L443
TLN3467AD
R4493
1R100K
DQF CIRCUIT
C442
400V0.18
P400B
3P5mm
M400
3P-3P
P400A
3P5mm
C447
400V0.022
C430
630V0.01
R445
1/2R1.2
T400
TLN2168AH (RA)
TLN2168 (RB)
EF READ
32"MODEL ONLY
FOCUS PACK
IN
F2
DF
G
Z410
TPA6029
+27V
Q4490
TLP521-1FA
R4490
1R2.2K
R4491
3.9K
Q4493
2SC1815Y
GND
C4490
400V0.24μ
C4491
400V0.24μ
D
G
S
R4492
10K
Q4491
2SK2003-01M (RA)
2SK2236 (RB)
2SK2028-01M (RC)
LIVE

✳	S/L	FBT 5PCS
✳	S/L	R305 1PC

	32"MODELS	
T400	TLN2168AH (RA) TLN2168 (RB)	DQF CIRCUIT
P400A	3P5mm	
P400B	3P5mm	
C430	630V0.01	
C447	400V0.022	
R445	1/2R1.2	
Z410	TPA6029	→ FOCUS PACK


DY
V.DY
L462 (ITC)
H.DY.
P401
6P5mm (LOCK)
(for DY)
⚠ T461
TFB3079AR (for 32" MODEL)
S/L
SL10
SL09
SL02
SL03
SL08
HV
E0
F
S
TO Z410 (FOCUS PACK)
(for 32" MODEL)
TO V901A (RT-D)
ON CRT-D BOARD
28" MODEL ONLY
TO CRT-D BOARD
C445
200VT0.047
R443
1/2R15
D445
BYD33J
D33J
R451
3R100 (B)
L444
TLN3346AD
C495
2KV (R1) 680
C496
2KV (R1) 680
R441
2R560
L441
TLN2158AY
L443
TLN3467AD
32" MODEL ONLY
TO T461 (FBT E0)
TO V901A (CRT SOCKET)
ON CRT-D BOARD
TO CRT-D BOARD
FOCUS PACK
IN
F1
F2
S
DF
G
Z410
TPA6029
DQF
CIRCUIT
FOCUS
PACK

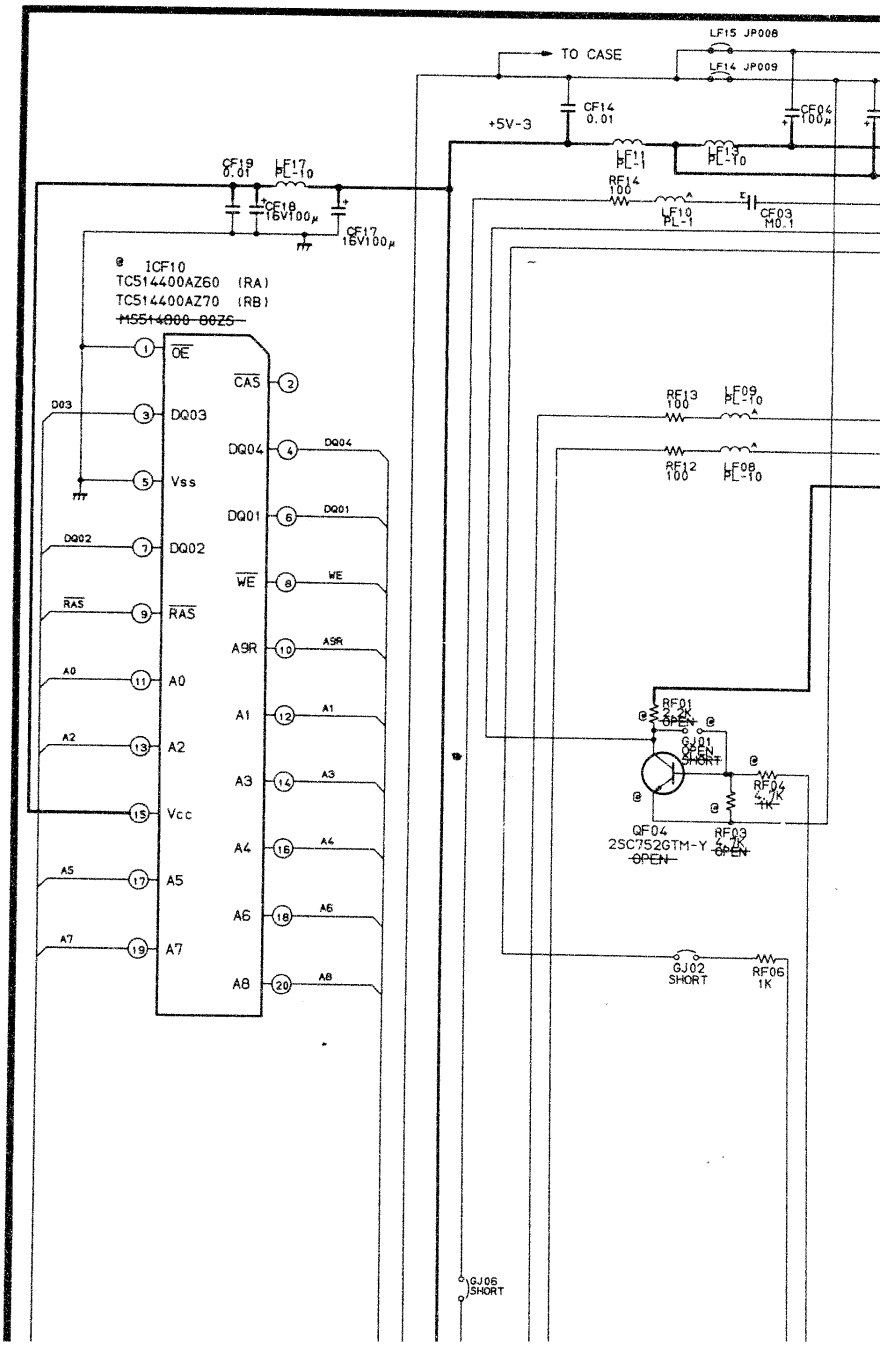
SCHEMATIC DIAGRAM **MODEL : 32MW7DB** **(4/6)**
32MW7DG


U907 TEXT BOARD PB6598 (SAME AS 32W6DB)
(for 28W7DD)
Ⓐ BOARD(M7225)
U102B DIGITAL-INPUT BOARD PB7325X-2
(for 28MW7DB/DG and 32MW7DB/DG)
U102A DOLBY-DIGITAL(AC-3) PB7325X-1
(for 28MW7DB/DG and 32MW7DB/DG)
QD07
AK4308AVM
QD06
AK4309AVM
QD02
AK4309AVM
QD04
TC7S04F
QD05
TC7S04F
QD01
ZR38600
QD30
TA1217AN
U901 CRT-D/DSM BOARD PB7466X
(for 32MW7 SERIES(DOUBLE FOCUS)
No.1194
No.1195
M703

SCHEMATIC DIAGRAM

MODEL : 32MW7DB (4/6)
32MW7DG

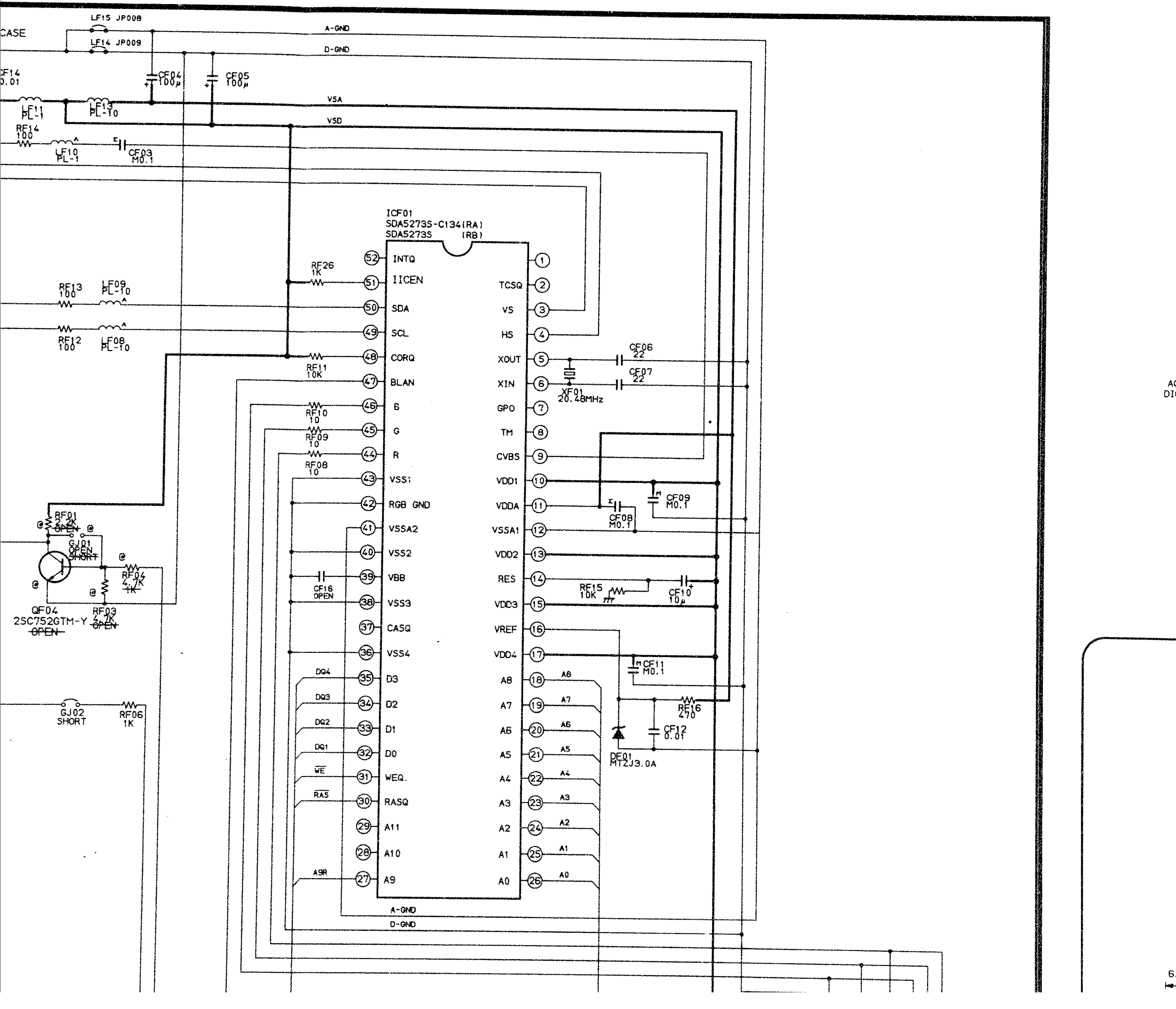
U907 TEXT BOARD PB
(for 28W7DD)



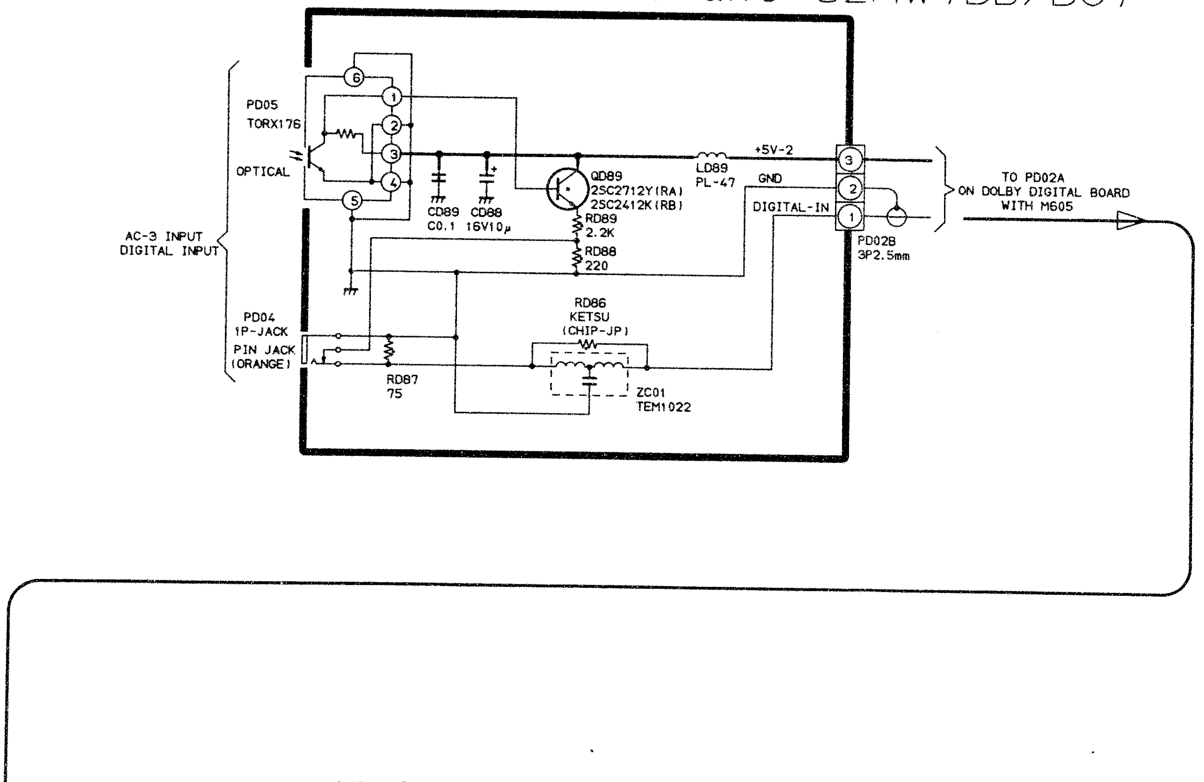
TO CASE
LF15 JP008
LF14 JP009
CF14 0.01
+5V-3
CF04 100μ
LF11 PL-1
LF13 PL-10
RF14 100
LF10 PL-1
CF03 M0.1
CF19 0.01
LF17 PL-10
CF18 16V100μ
CF17 16V100μ
ICF10
TC514400AZ60 (RA)
TC514400AZ70 (RB)
~~M5514000-80ZS~~
OE
CAS
DQ03
DQ04
Vss
DQ01
DQ02
WE
RAS
A9R
A0
A1
A2
A3
Vcc
A4
A5
A6
A7
A8
D03
DQ04
DQ01
DQ02
WE
RAS
A9R
A0
A1
A2
A3
A4
A5
A6
A7
A8
RF13 100
LF09 PL-10
RF12 100
LF08 PL-10
RF01 2.2K ~~OPEN~~
GJ01 OPEN SHORT
RF04 4.7K 1K
QF04
2SC752GTM-Y
~~OPEN~~
RF03 4.7K ~~OPEN~~
GJ02 SHORT
RF06 1K
GJ06 SHORT

(4/6)

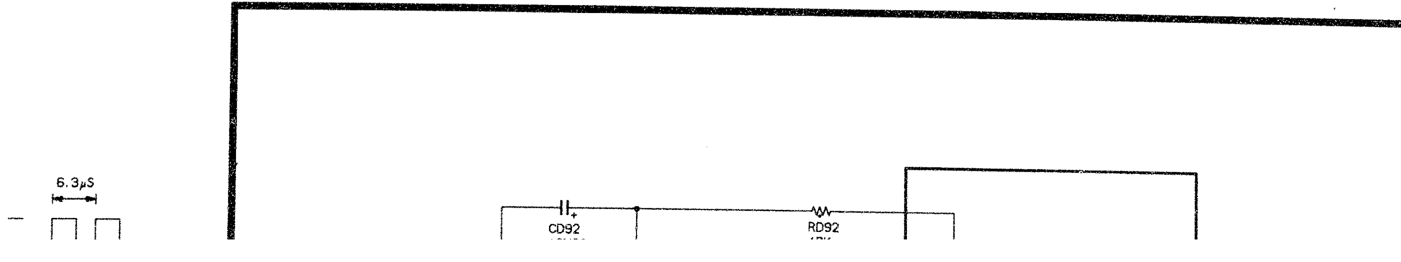
BOARD PB6598Y (SAME AS 32W6DB)
7DD)

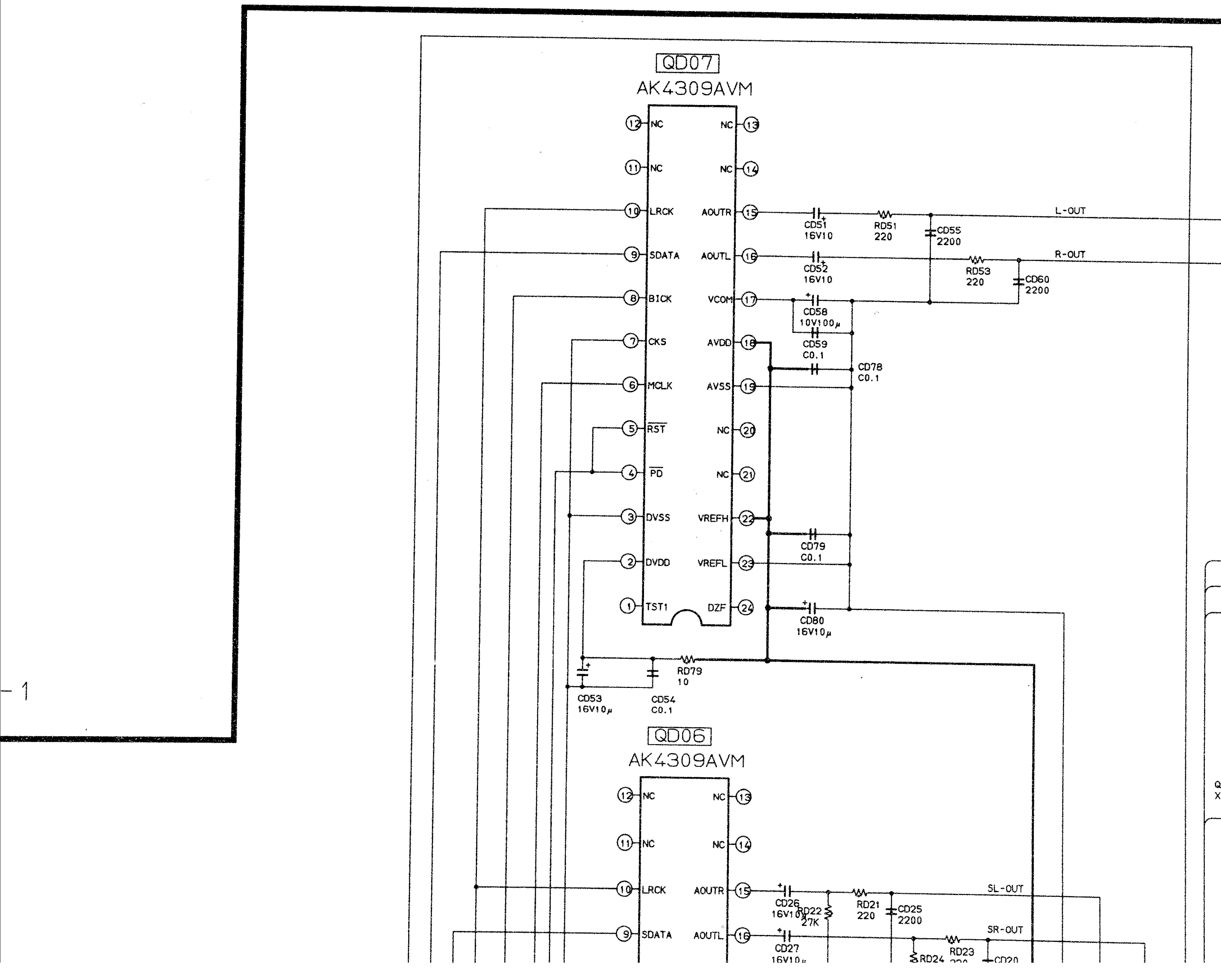

CASE
LF15 JP008
LF14 JP009
A-GND
D-GND
CF14 0.01
CF04 100µ
CF05 100µ
LF11 PL-1
LF13 PL-10
VSA
VSD
RF14 100
LF10 PL-1
CF03 M0.1
ICF01
SDA5273S-C134(RA)
SDA5273S (RB)
RF26 1K
RF13 100
LF09 PL-10
RF12 100
LF08 PL-10
RF11 10K
RF10 10
RF09 10
RF08 10
52 INTQ
51 IICEN
50 SDA
49 SCL
48 CORQ
47 BLAN
46 B
45 G
44 R
43 VSS1
42 RGB GND
41 VSSA2
40 VSS2
39 VBB
38 VSS3
37 CASQ
36 VSS4
35 D3
34 D2
33 D1
32 D0
31 WEQ
30 RASQ
29 A11
28 A10
27 A9
1
TCSQ 2
VS 3
HS 4
XOUT 5
XIN 6
GPO 7
TM 8
CVBS 9
VDD1 10
VDDA 11
VSSA1 12
VDD2 13
RES 14
VDD3 15
VREF 16
VDD4 17
A8 18
A7 19
A6 20
A5 21
A4 22
A3 23
A2 24
A1 25
A0 26
CF06 22
CF07 22
XF01 20.48MHz
CF09 M0.1
CF08 M0.1
RF15 10K
CF10 10µ
CF11 M0.1
RF16 470
CF12 0.01
DF01 MTZJ3.0A
CF16 OPEN
DQ4
DQ3
DQ2
DQ1
WE
RAS
A9R
A8
A7
A6
A5
A4
A3
A2
A1
A0
A-GND
D-GND
RF01 2.2K OPEN
GJ01 OPEN SHORT
RF04 4.7K 1K
QF04 2SC752GTM-Y OPEN
RF03 4.7K OPEN
GJ02 SHORT
RF06 1K
AC
DI
6.

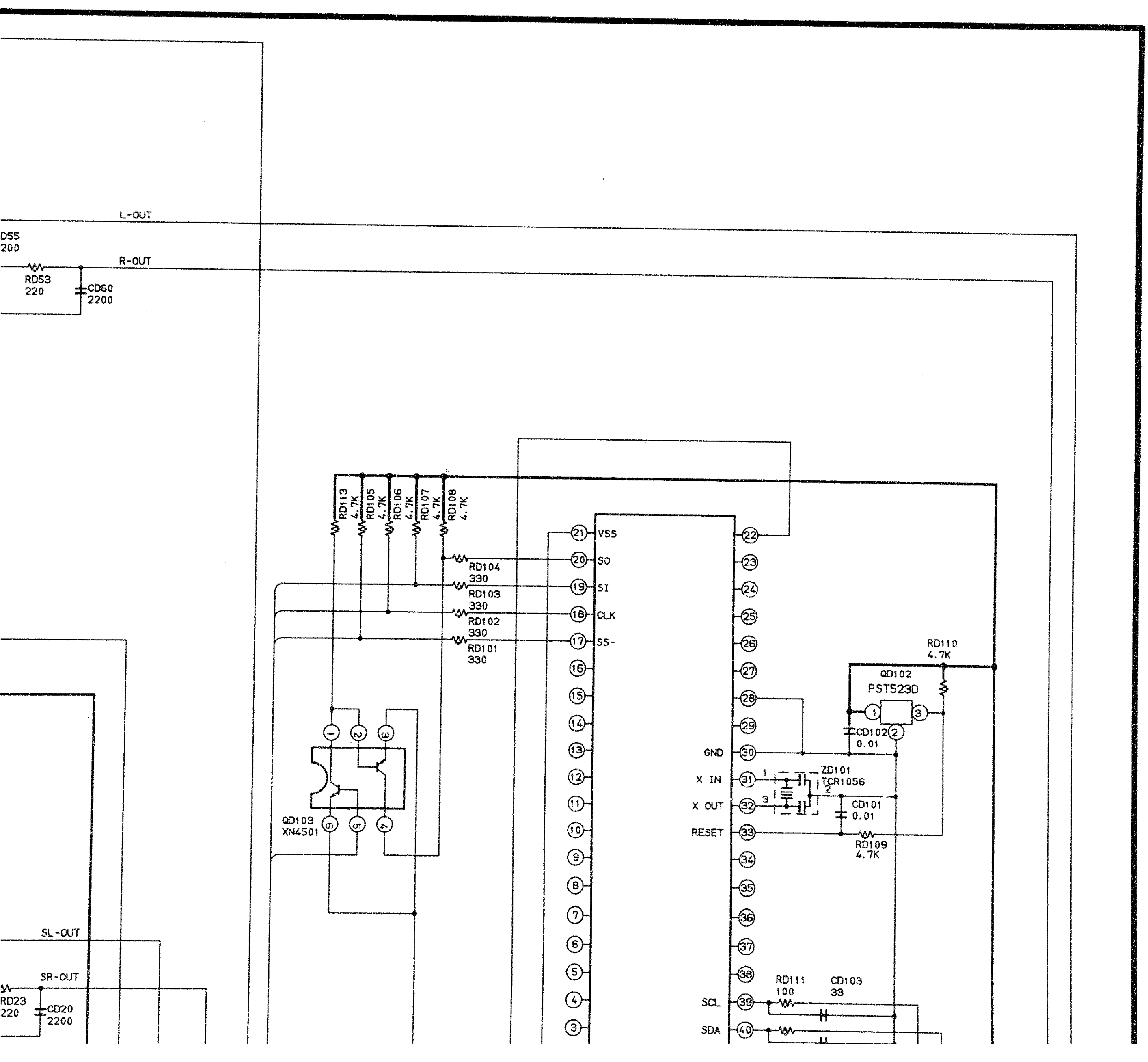
U102B DIGITAL-INPUT BOARD PB7325X-2
(for 28MW7DB/DG and 32MW7DB/DG)

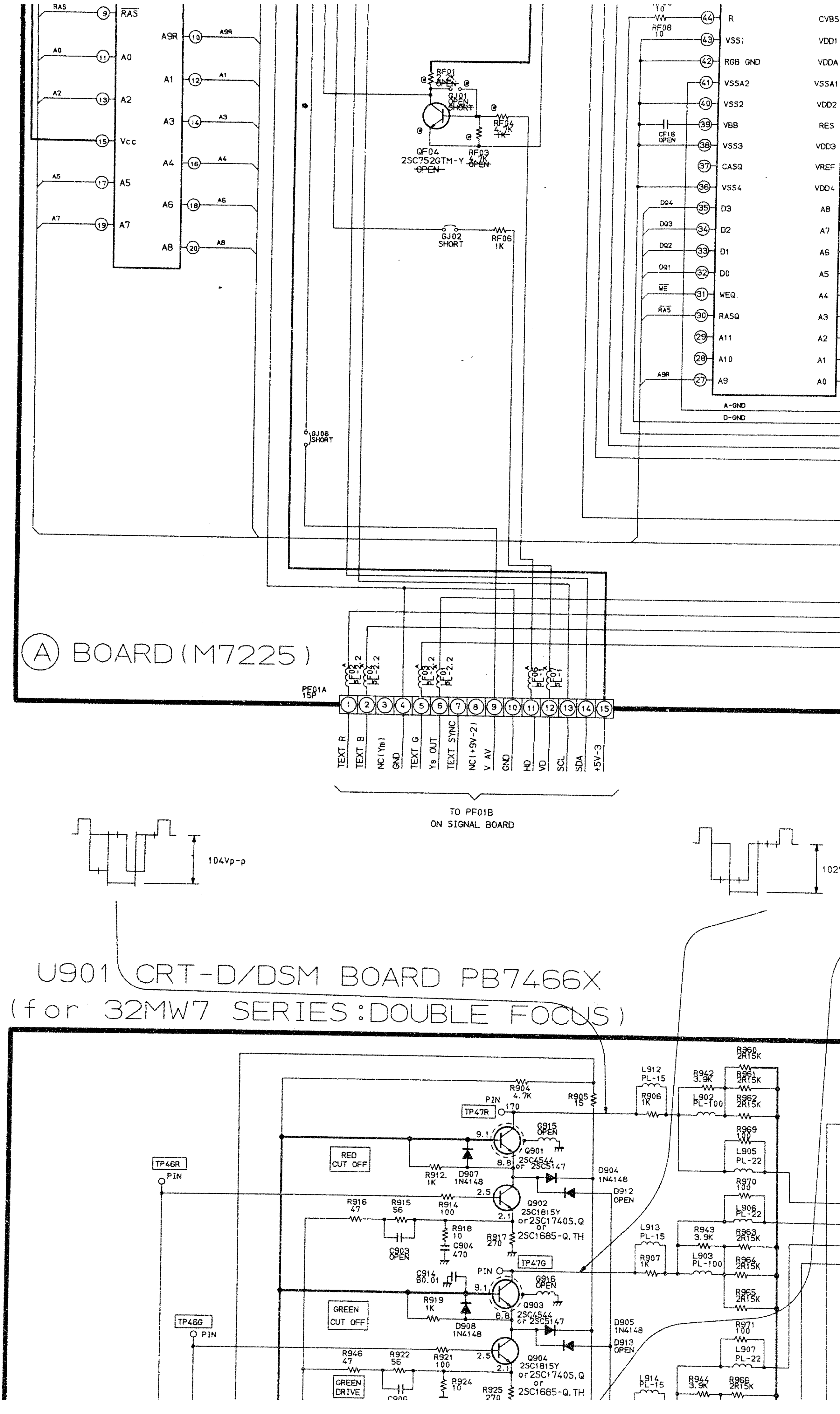

PD05
TORX176
OPTICAL
6
1
2
3
4
5
AC-3 INPUT
DIGITAL INPUT
CD89
C0.1
CD88
16V10μ
QD89
2SC2712Y(RA)
2SC2412K(RB)
RD89
2.2K
RD88
220
LD89
PL-47
+5V-2
GND
DIGITAL-IN
PD02B
3P2.5mm
TO PD02A
ON DOLBY DIGITAL BOARD
WITH M605
PD04
1P-JACK
PIN JACK
(ORANGE)
RD87
75
RD86
KETSU
(CHIP-JP)
ZC01
TEM1022

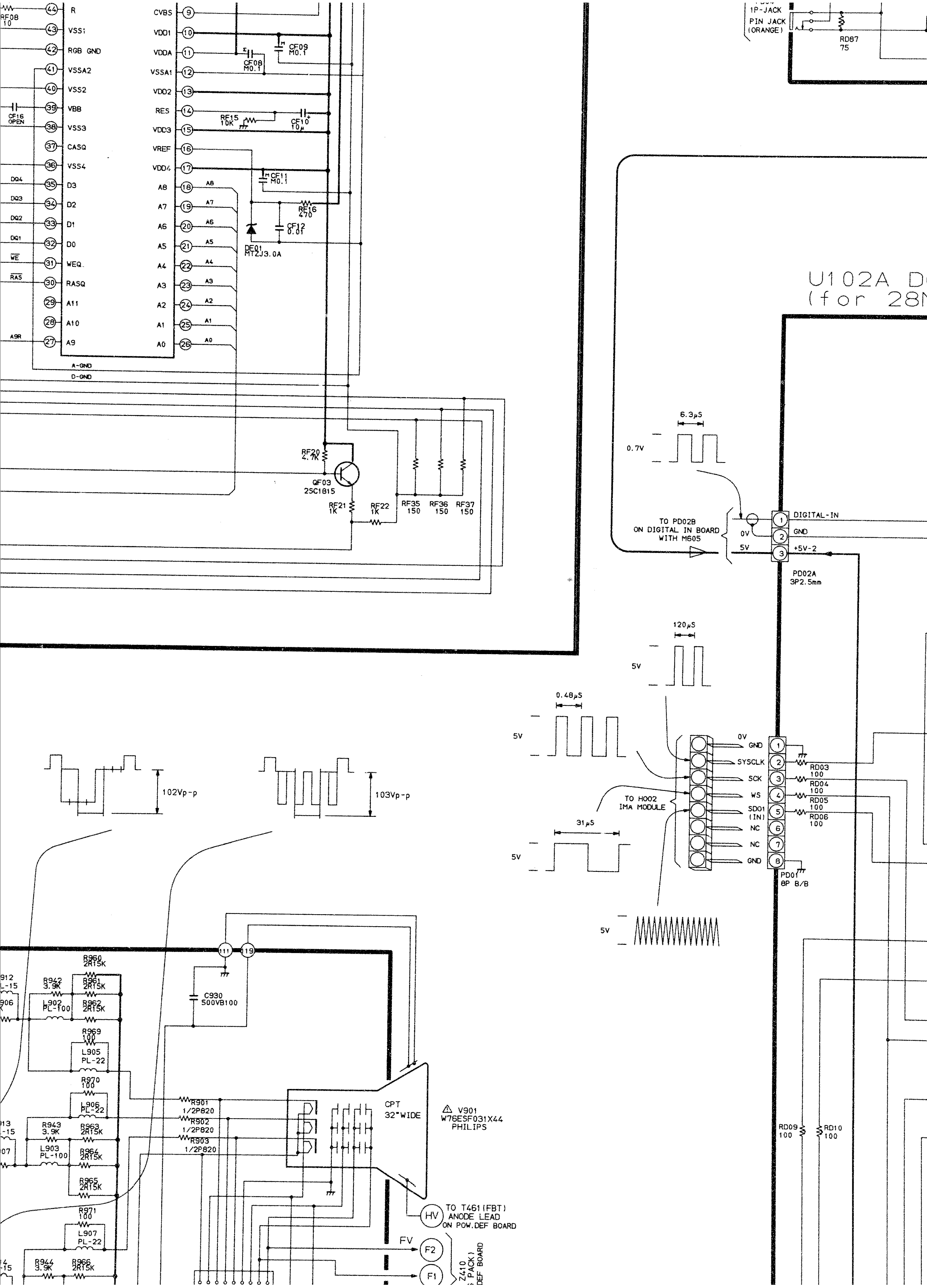
U102A DOLBY-DIGITAL(AC-3) PB7325X-1
(for 28MW7DB/DG and 32MW7DB/DG)

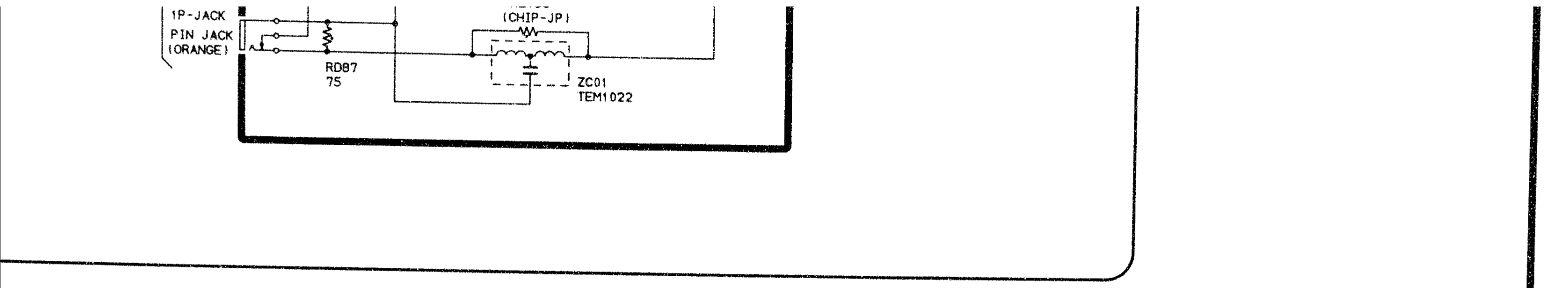

6.3μS
CD92
RD92


-1
QD07
AK4309AVM
NC
NC
LRCK
SDATA
BICK
CKS
MCLK
RST
PD
DVSS
DVDD
TST1
NC
NC
AOUTR
AOUTL
VCOM
AVDD
AVSS
NC
NC
VREFH
VREFL
DZF
CD51
16V10
RD51
220
CD55
2200
L-OUT
CD52
16V10
RD53
220
CD60
2200
R-OUT
CD58
10V100μ
CD59
C0.1
CD78
C0.1
CD79
C0.1
CD80
16V10μ
RD79
10
CD53
16V10μ
CD54
C0.1
QD06
AK4309AVM
NC
NC
LRCK
SDATA
NC
NC
AOUTR
AOUTL
CD26
16V10μ
RD22
27K
RD21
220
CD25
2200
SL-OUT
CD27
16V10μ
RD24
RD23
CD20
SR-OUT

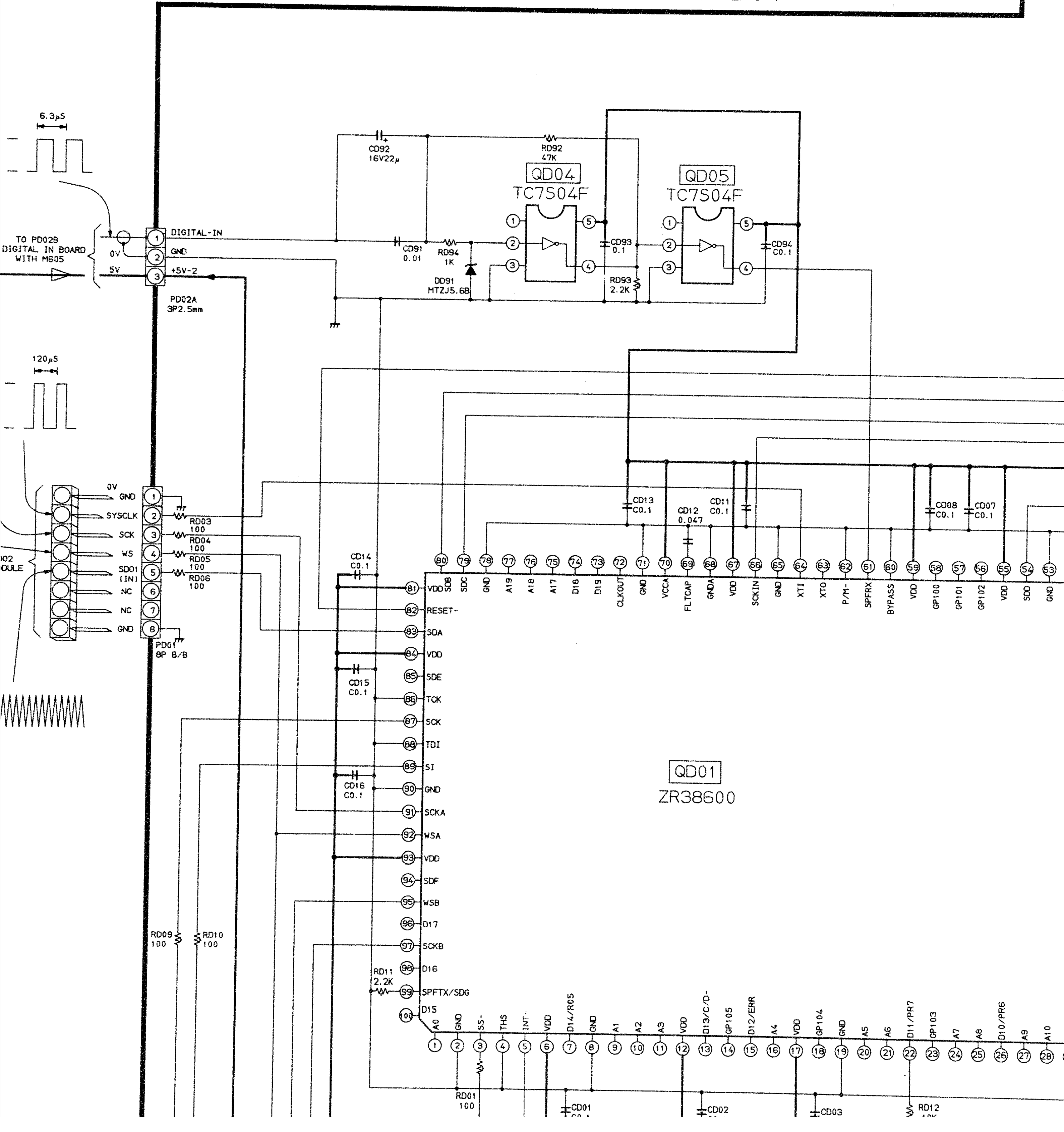

L-OUT
D55
200
RD53
220
R-OUT
CD60
2200
RD113
4.7K
RD105
4.7K
RD106
4.7K
RD107
4.7K
RD108
4.7K
RD104
330
RD103
330
RD102
330
RD101
330
VSS
SO
SI
CLK
SS-
QD103
XN4501
RD110
4.7K
QD102
PST523D
CD102
0.01
GND
X IN
X OUT
RESET
ZD101
TCR1056
CD101
0.01
RD109
4.7K
SCL
SDA
RD111
100
CD103
33
SL-OUT
SR-OUT
RD23
220
CD20
2200

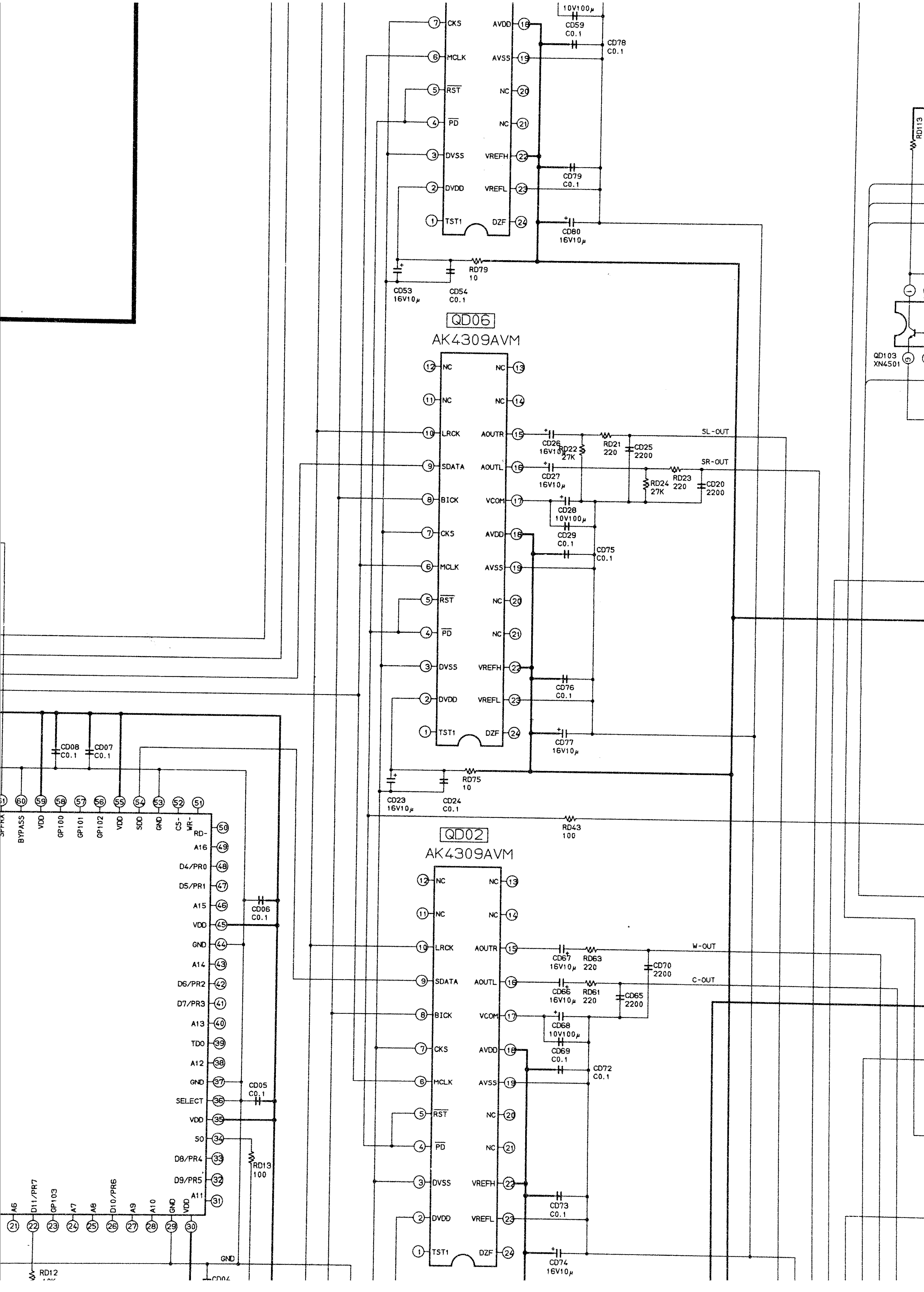

RAS
9 RAS
A0
11 A0
A2
13 A2
15 Vcc
A5
17 A5
A7
19 A7
A9R 10 A9R
A1 12 A1
A3 14 A3
A4 16 A4
A6 18 A6
A8 20 A8
RF01 2.2K OPEN
GJ01 OPEN SHORT
RF04 4.7K 1K
QF04 2SC752GTM-Y ~~OPEN~~
RF03 4.7K ~~OPEN~~
GJ02 SHORT
RF06 1K
GJ06 SHORT
10
RF08 10
44 R
43 VSS1
42 RGB GND
41 VSSA2
40 VSS2
CF16 OPEN
39 VBB
38 VSS3
37 CASQ
36 VSS4
DQ4 35 D3
DQ3 34 D2
DQ2 33 D1
DQ1 32 D0
WE 31 WEQ
RAS 30 RASQ
29 A11
28 A10
A9R 27 A9
A-GND
D-GND
CVBS
VDD1
VDDA
VSSA1
VDD2
RES
VDD3
VREF
VDD4
A8
A7
A6
A5
A4
A3
A2
A1
A0
A BOARD (M7225)
LF02 2.2
LF05 2.2
LF03 2.2
LF01 2.2
LF06 1
LF07 1
PF01A 15P
1 TEXT R
2 TEXT B
3 NC(Ym)
4 GND
5 TEXT G
6 Ys OUT
7 TEXT SYNC
8 NC(+9V-2)
9 V AV
10 GND
11 HD
12 VD
13 SCL
14 SDA
15 +5V-3
TO PF01B ON SIGNAL BOARD
104Vp-p
102V
U901 CRT-D/DSM BOARD PB7466X
(for 32MW7 SERIES : DOUBLE FOCUS)
R904 4.7K
PIN
TP47R 170
R905 15
9.1
Q915 OPEN
Q901 2SC4544 or 2SC5147
8.8
RED CUT OFF
R912 1K
D907 1N4148
D904 1N4148
D912 OPEN
TP46R PIN
2.5
Q902 2SC1815Y or 2SC1740S,Q or 2SC1685-Q,TH
2.1
R916 47
R915 56
R914 100
R918 10
C904 470
C903 OPEN
R917 270
PIN
TP47G
C914 80.01
9.1
G916 OPEN
GREEN CUT OFF
R919 1K
Q903 2SC4544 or 2SC5147
8.8
D908 1N4148
D905 1N4148
D913 OPEN
TP46G PIN
2.5
Q904 2SC1815Y or 2SC1740S,Q or 2SC1685-Q,TH
2.1
R946 47
R922 56
R921 100
GREEN DRIVE
R924 10
C906
R925 270
L912 PL-15
R906 1K
R942 3.9K
L902 PL-100
R960 2R15K
R961 2R15K
R962 2R15K
R969 100
L905 PL-22
R970 100
L906 PL-22
L913 PL-15
R907 1K
R943 3.9K
L903 PL-100
R963 2R15K
R964 2R15K
R965 2R15K
R971 100
L907 PL-22
L914 PL-15
R944 3.9K
R966 2R15K

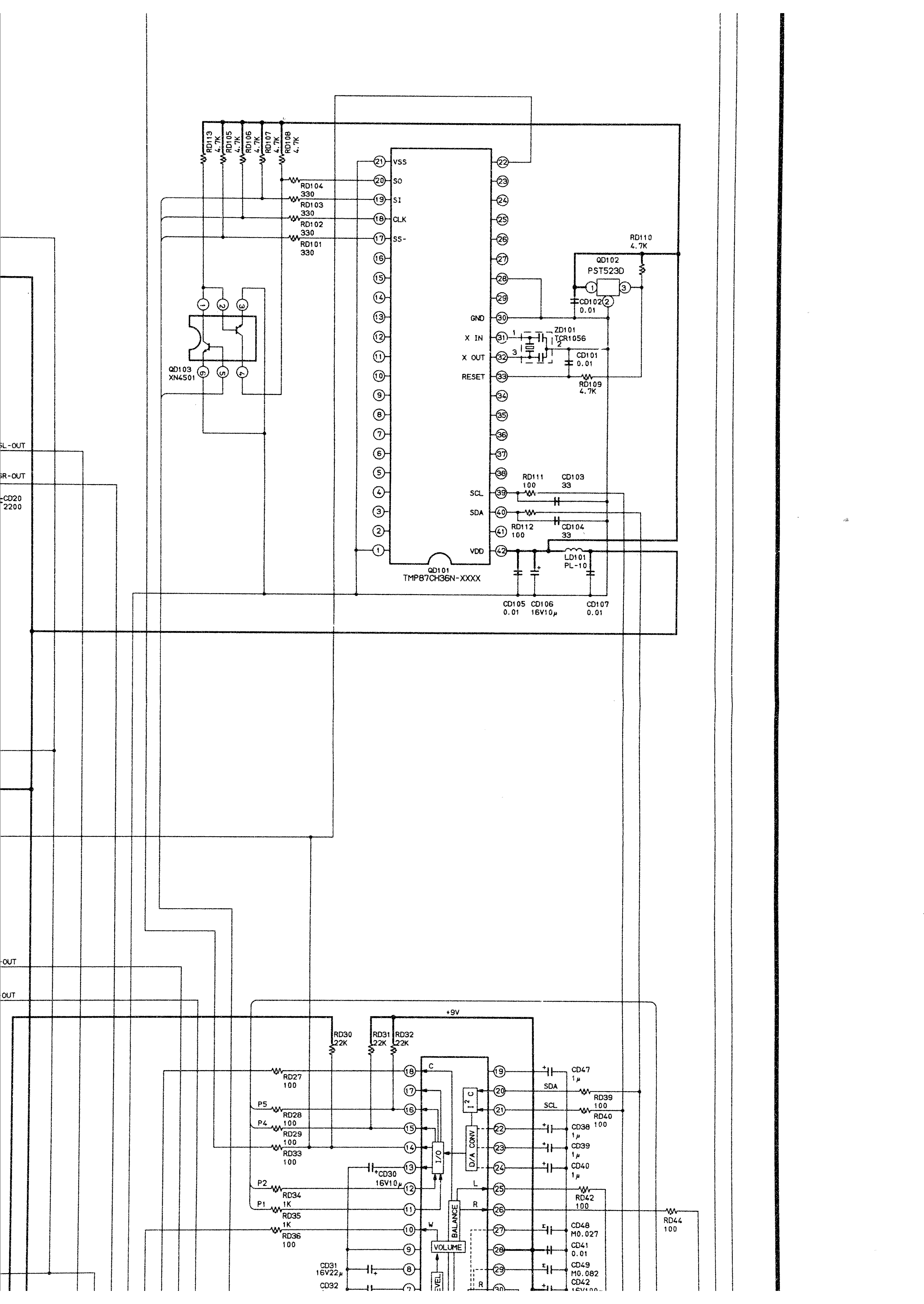

RF08
10
R
VSS1
RGB GND
VSSA2
VSS2
VBB
VSS3
CASQ
VSS4
D3
D2
D1
D0
WEQ
RASQ
A11
A10
A9
CF16
OPEN
DQ4
DQ3
DQ2
DQ1
WE
RAS
A9R
CVBS
VDD1
VDDA
VSSA1
VDD2
RES
VDD3
VREF
VDD4
A8
A7
A6
A5
A4
A3
A2
A1
A0
A-GND
D-GND
CF09
M0.1
CF08
M0.1
RF15
10K
CF10
10μ
CF11
M0.1
RF16
470
CF12
0.01
DE01
MTZJ3.0A
RF20
4.7K
QF03
2SC1815
RF21
1K
RF22
1K
RF35
150
RF36
150
RF37
150
1P-JACK
PIN JACK
(ORANGE)
RD87
75
U102A D
(for 28
6.3μS
0.7V
TO PD02B
ON DIGITAL IN BOARD
WITH M605
0V
5V
DIGITAL-IN
GND
+5V-2
PD02A
3P2.5mm
120μS
5V
0.48μS
5V
0V
GND
SYSCLK
SCK
WS
SDO1
(IN)
NC
NC
GND
RD03
100
RD04
100
RD05
100
RD06
100
TO H002
IMA MODULE
31μS
5V
PD01
8P B/B
5V
102Vp-p
103Vp-p
111
119
R960
2R15K
R961
2R15K
R962
2R15K
R942
3.9K
L902
PL-100
912
L-15
906
C930
500VB100
R969
100
L905
PL-22
R970
100
L906
PL-22
R963
2R15K
R943
3.9K
L903
PL-100
R964
2R15K
R965
2R15K
913
-15
07
R971
100
L907
PL-22
R944
3.9K
R966
2R15K
4
-15
R901
1/2P820
R902
1/2P820
R903
1/2P820
CPT
32"WIDE
⚠ V901
W76ESF031X44
PHILIPS
HV
TO T461(FBT)
ANODE LEAD
ON POW.DEF BOARD
FV
F2
F1
Z410
S PACK)
DEF BOARD
RD09
100
RD10
100


1P-JACK
PIN JACK
(ORANGE)
RD87
75
(CHIP-JP)
ZC01
TEM1022

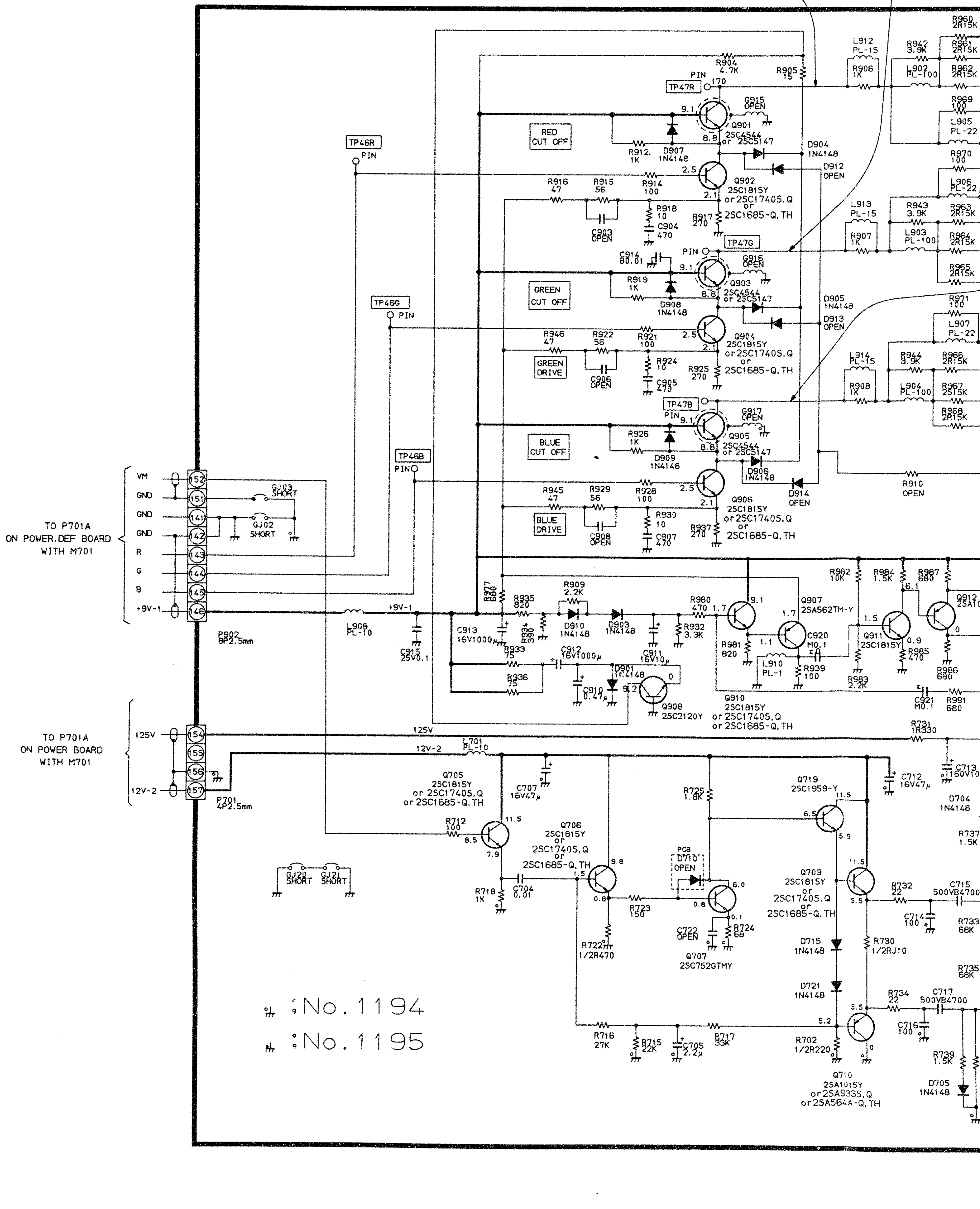
U102A DOLBY-DIGITAL(AC-3) PB7325X-1
(for 28MW7DB/DG and 32MW7DB/DG)


6.3μS
120μS
TO PD02B
DIGITAL IN BOARD
WITH M605
0V
5V
DIGITAL-IN
GND
+5V-2
PD02A
3P2.5mm
CD92
16V22μ
RD92
47K
QD04
TC7S04F
QD05
TC7S04F
CD91
0.01
RD94
1K
DD91
MTZJ5.6B
CD93
0.1
RD93
2.2K
CD94
C0.1
0V
GND
SYSCLK
SCK
WS
SD01
(IN)
NC
NC
GND
RD03
100
RD04
100
RD05
100
RD06
100
PD01
8P B/B
02
DULE
CD13
C0.1
CD12
0.047
CD11
C0.1
CD08
C0.1
CD07
C0.1
CD14
C0.1
CD15
C0.1
CD16
C0.1
QD01
ZR38600
VDD
RESET-
SDA
VDD
SDE
TCK
SCK
TDI
SI
GND
SCKA
WSA
VDD
SDF
WSB
D17
SCKB
D16
SPFTX/SDG
D15
SDB
SDC
GND
A19
A18
A17
D18
D19
CLKOUT
GND
VCCA
FLTCAP
GNDA
VDD
SCKIN
GND
XTI
XTO
P/M-
SPFRX
BYPASS
VDD
GP100
GP101
GP102
VDD
SDD
GND
A0
GND
SS-
THS
INT-
VDD
D14/R05
GND
A1
A2
A3
VDD
D13/C/D-
GP105
D12/ERR
A4
VDD
GP104
GND
A5
A6
D11/PR7
GP103
A7
A8
D10/PR6
A9
A10
RD09
100
RD10
100
RD11
2.2K
RD01
100
CD01
CD02
CD03
RD12


10V100μ
CD59
C0.1
CD78
C0.1
CKS
MCLK
RST
PD
DVSS
DVDD
TST1
AVDD
AVSS
NC
VREFH
VREFL
DZF
CD79
C0.1
CD80
16V10μ
RD79
10
CD53
16V10μ
CD54
C0.1
QD06
AK4309AVM
LRCK
SDATA
BICK
VCOM
AOUTR
AOUTL
CD26
16V10μ
RD22
27K
RD21
220
CD25
2200
SL-OUT
CD27
16V10μ
RD24
27K
RD23
220
CD20
2200
SR-OUT
CD28
10V100μ
CD29
C0.1
CD75
C0.1
CD76
C0.1
CD77
16V10μ
RD75
10
CD23
16V10μ
CD24
C0.1
RD43
100
QD02
AK4309AVM
CD67
16V10μ
RD63
220
CD70
2200
W-OUT
CD66
16V10μ
RD61
220
CD65
2200
C-OUT
CD68
10V100μ
CD69
C0.1
CD72
C0.1
CD73
C0.1
CD74
16V10μ
RD113
QD103
XN4501
CD08
C0.1
CD07
C0.1
SPFRX
BYPASS
VDD
GP100
GP101
GP102
SDO
GND
CS-
WR-
RD-
A16
D4/PR0
D5/PR1
A15
A14
D6/PR2
D7/PR3
A13
TDO
A12
SELECT
S0
D8/PR4
D9/PR5
A11
A6
D11/PR7
GP103
A7
A8
D10/PR6
A9
A10
CD06
C0.1
CD05
C0.1
RD13
100
RD12
10K
CD04

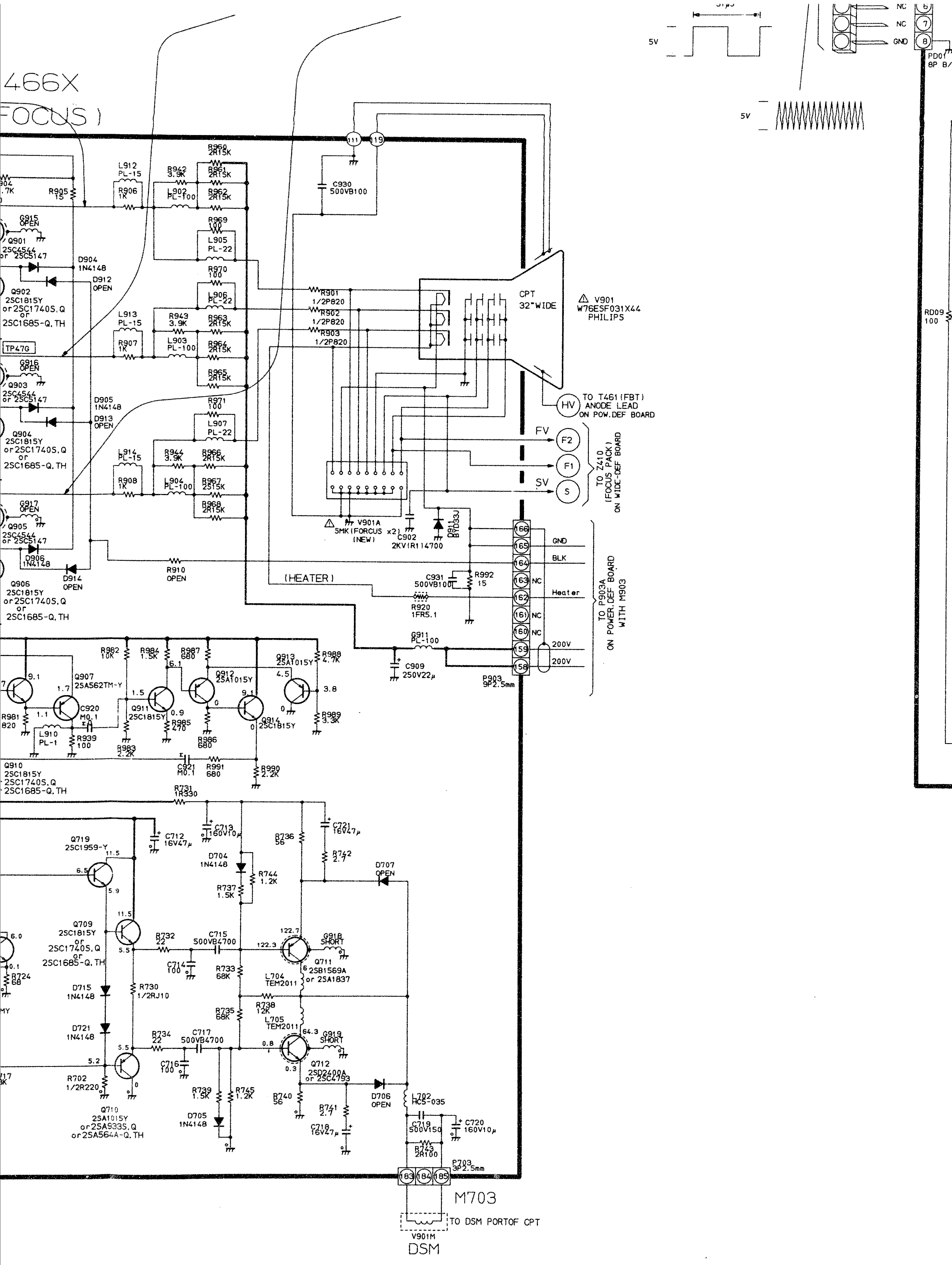

RD113 4.7K
RD105 4.7K
RD106 4.7K
RD107 4.7K
RD108 4.7K
RD104 330
RD103 330
RD102 330
RD101 330
VSS
SO
SI
CLK
SS-
QD103 XN4501
GND
X IN
X OUT
RESET
SCL
SDA
VDD
QD101 TMP87CH36N-XXXX
RD110 4.7K
QD102 PST523D
CD102 0.01
ZD101 TCR1056
CD101 0.01
RD109 4.7K
RD111 100
CD103 33
RD112 100
CD104 33
LD101 PL-10
CD105 0.01
CD106 16V10μ
CD107 0.01
SL-OUT
SR-OUT
CD20 2200
-OUT
OUT
+9V
RD30 22K
RD31 22K
RD32 22K
RD27 100
P5
RD28 100
P4
RD29 100
RD33 100
CD30 16V10μ
P2
RD34 1K
P1
RD35 1K
RD36 100
CD31 16V22μ
CD32
C
W
I²C
D/A CONV
I/O
BALANCE
VOLUME
EVEL
L
R
SDA
SCL
CD47 1μ
RD39 100
RD40 100
CD38 1μ
CD39 1μ
CD40 1μ
RD42 100
RD44 100
CD48 M0.027
CD41 0.01
CD49 M0.082
CD42 16V100μ

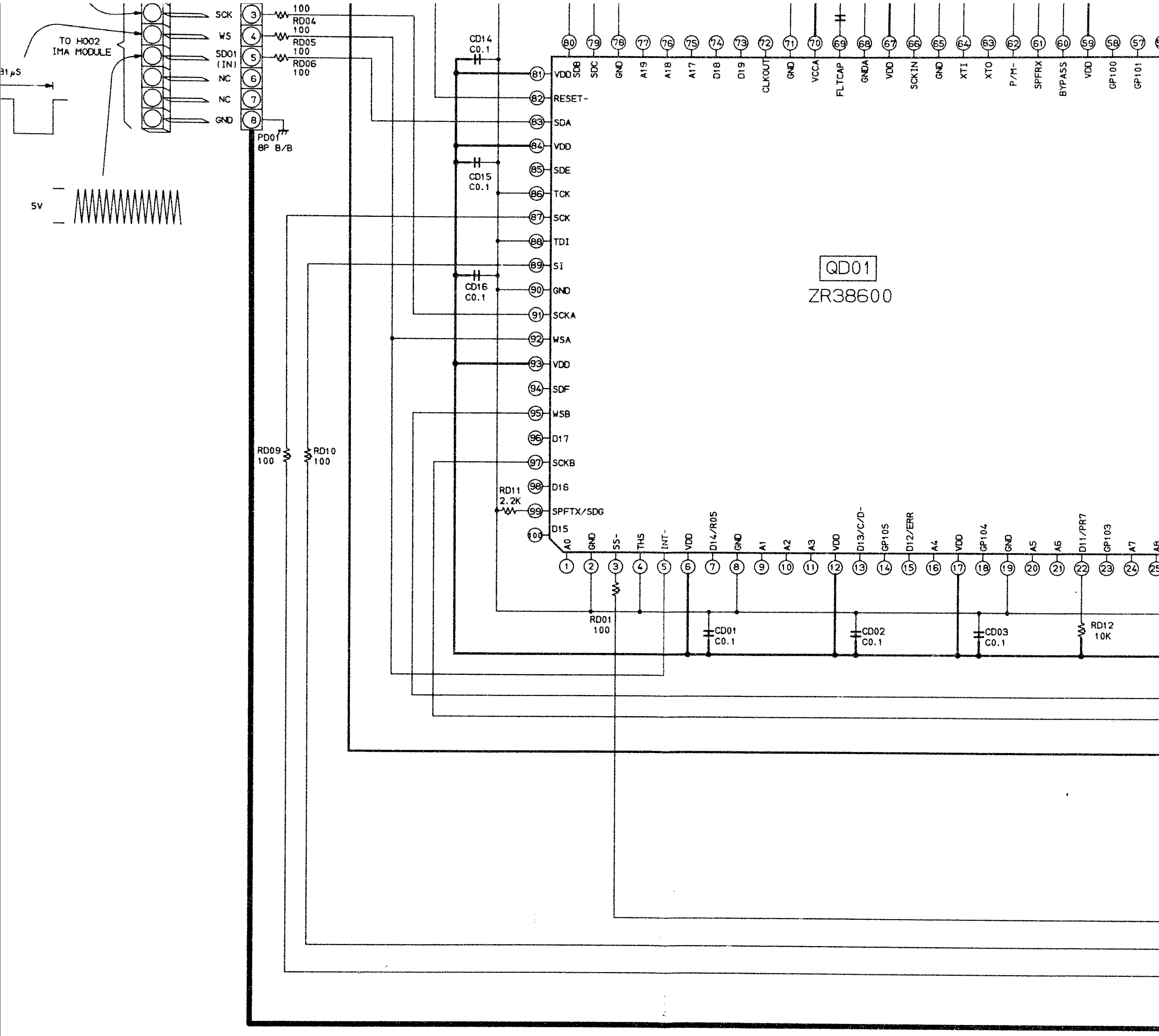
U901 CRT-D/DSM BOARD PB7466X
(for 32MW7 SERIES:DOUBLE FOCUS)


TO P701A ON POWER.DEF BOARD WITH M701
VM
GND
GND
GND
R
G
B
+9V-1
152
151
141
142
143
144
145
146
P902 8P2.5mm
GJ03 SHORT
GJ02 SHORT
TO P701A ON POWER BOARD WITH M701
125V
12V-2
154
155
156
157
P701 4P2.5mm
TP46R PIN
TP46G PIN
TP46B PIN
TP47R
TP47G
TP47B
PIN 170
RED CUT OFF
GREEN CUT OFF
BLUE CUT OFF
GREEN DRIVE
BLUE DRIVE
R904 4.7K
R905 15
Q901 2SC4544 or 2SC5147
Q902 2SC1815Y or 2SC1740S,Q or 2SC1685-Q,TH
Q903 2SC4544 or 2SC5147
Q904 2SC1815Y or 2SC1740S,Q or 2SC1685-Q,TH
Q905 2SC4544 or 2SC5147
Q906 2SC1815Y or 2SC1740S,Q or 2SC1685-Q,TH
G915 OPEN
G916 OPEN
G917 OPEN
D904 1N4148
D905 1N4148
D906 1N4148
D907 1N4148
D908 1N4148
D909 1N4148
D912 OPEN
D913 OPEN
D914 OPEN
R912 1K
R919 1K
R926 1K
R916 47
R915 56
R914 100
R918 10
R917 270
C903 OPEN
C904 470
C914 B0.01
R946 47
R922 56
R921 100
R924 10
R925 270
C906 OPEN
C905 470
R945 47
R929 56
R928 100
R930 10
R937 270
C908 OPEN
C907 470
L912 PL-15
L913 PL-15
L914 PL-15
R906 1K
R907 1K
R908 1K
R942 3.9K
R943 3.9K
R944 3.9K
L902 PL-100
L903 PL-100
L904 PL-100
R960 2R15K
R961 2R15K
R962 2R15K
R963 2R15K
R964 2R15K
R965 2R15K
R966 2R15K
R967 2S15K
R968 2R15K
R969 100
R970 100
R971 100
L905 PL-22
L906 PL-22
L907 PL-22
R910 OPEN
R977 680
R935 820
R934 390
R909 2.2K
D910 1N4148
D903 1N4148
R932 3.3K
R980 470
R981 820
C913 16V1000μ
R933 75
R936 75
C912 16V1000μ
C910 0.47μ
D901 1N4148
C911 16V10μ
Q908 2SC2120Y
Q907 2SA562TM-Y
C920 M0.1
L910 PL-1
R939 100
Q910 2SC1815Y or 2SC1740S,Q or 2SC1685-Q,TH
R982 10K
R984 1.5K
R987 680
Q911 2SC1815Y
R985 470
R983 2.2K
R986 680
Q912 2SA1
C921 M0.1
R991 680
L908 PL-10
C915 25V0.1
+9V-1
125V
R731 1R330
12V-2
L701 PL-10
C707 16V47μ
C712 16V47μ
C713 160V10
Q705 2SC1815Y or 2SC1740S,Q or 2SC1685-Q,TH
R712 100
R718 1K
C704 0.01
Q706 2SC1815Y or 2SC1740S,Q or 2SC1685-Q,TH
R722 1/2R470
R723 150
R725 1.8K
PCB D710 OPEN
Q707 2SC752GTMY
C722 OPEN
R724 68
Q719 2SC1959-Y
Q709 2SC1815Y or 2SC1740S,Q or 2SC1685-Q,TH
D704 1N4148
R737 1.5K
R732 22
C715 500VB4700
C714 100
R733 68K
R730 1/2RJ10
D715 1N4148
D721 1N4148
R735 68K
R734 22
C717 500VB4700
C716 100
R716 27K
R715 22K
C705 2.2μ
R717 33K
R702 1/2R220
Q710 2SA1015Y or 2SA933S,Q or 2SA564A-Q,TH
R739 1.5K
D705 1N4148
GJ20 SHORT
GJ21 SHORT
:No.1194
:No.1195

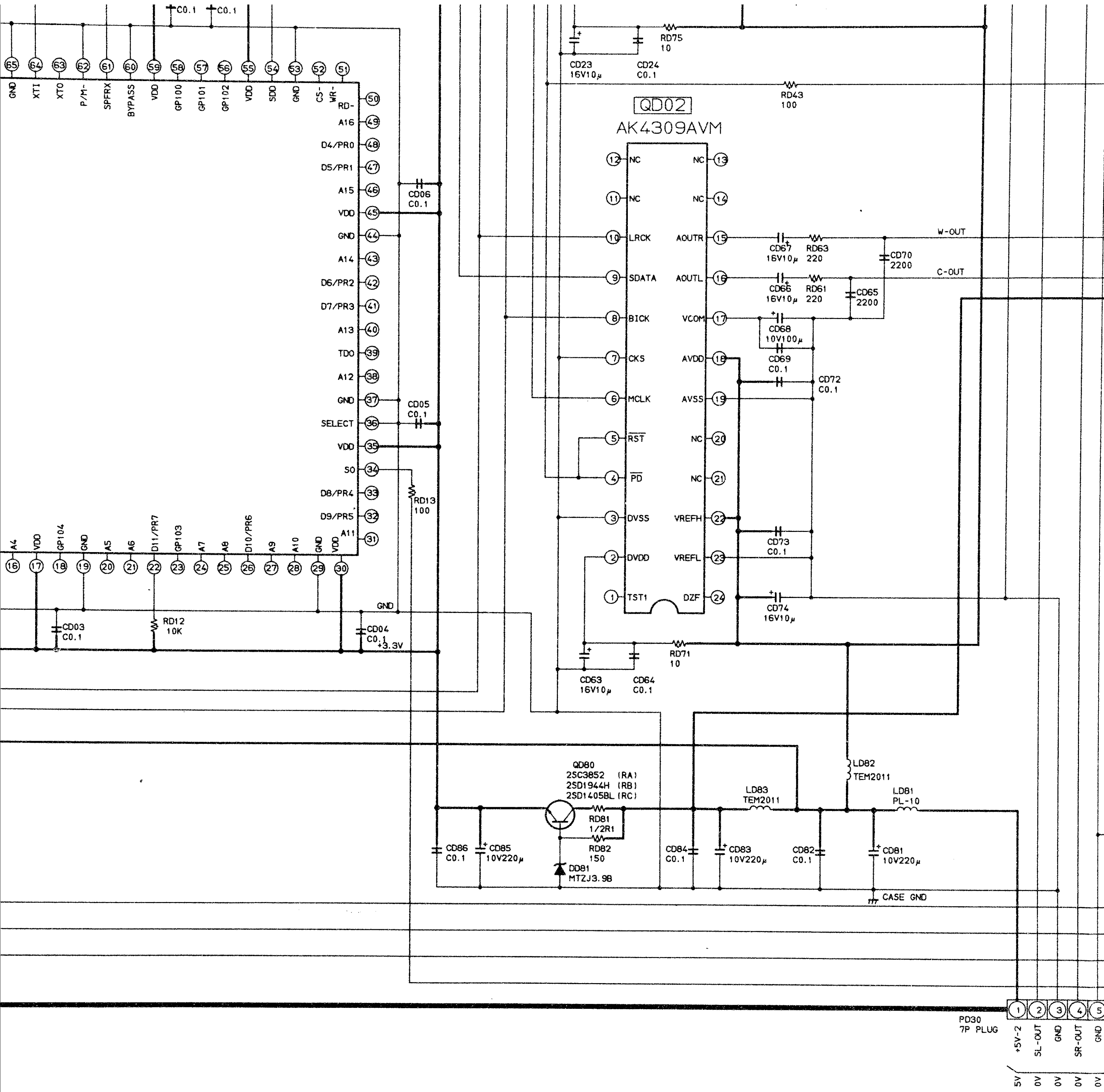
466X

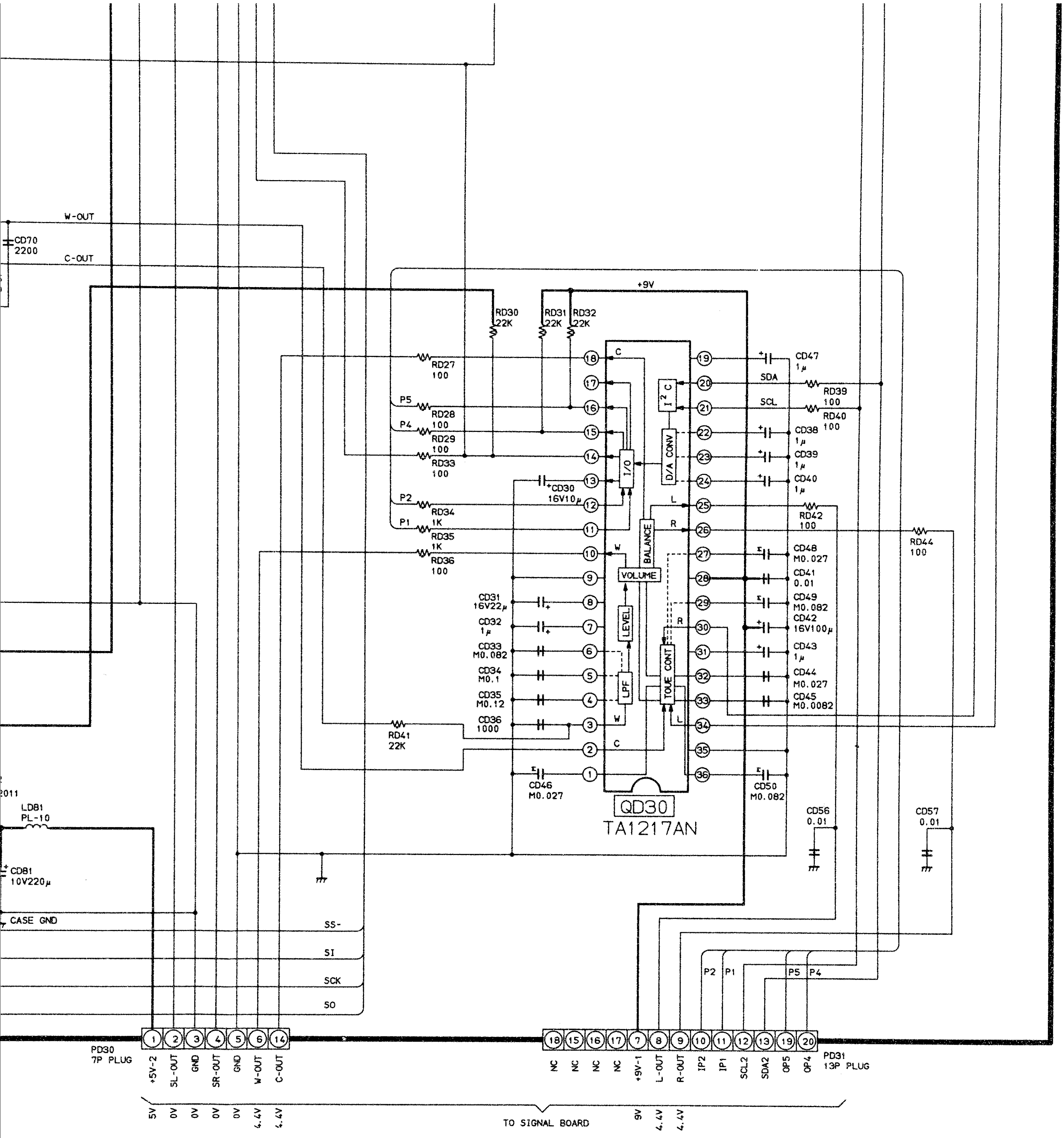
FOCUS)


5V
5V
NC 6
NC 7
GND 8
PD01
8P 8/
RD09
100
111
119
C930
500VB100
R950 2R15K
R961 2R15K
R962 2R15K
R942 3.9K
L902 PL-100
L912 PL-15
R906 1K
R905 15
904
.7K
G915 OPEN
Q901
2SC4544
or 2SC5147
D904 1N4148
D912 OPEN
Q902
2SC1815Y
or 2SC1740S.Q
or
2SC1685-Q.TH
R969 100
L905 PL-22
R970 100
L906 PL-22
R901 1/2P820
R902 1/2P820
R903 1/2P820
L913 PL-15
R943 3.9K
R963 2R15K
R907 1K
L903 PL-100
R964 2R15K
R965 2R15K
TP47G
G916 OPEN
Q903
2SC4544
or 2SC5147
D905 1N4148
D913 OPEN
Q904
2SC1815Y
or 2SC1740S.Q
or
2SC1685-Q.TH
R971 100
L907 PL-22
L914 PL-15
R944 3.9K
R966 2R15K
R908 1K
L904 PL-100
R967 2S15K
R968 2R15K
G917 OPEN
Q905
2SC4544
or 2SC5147
D906 1N4148
D914 OPEN
R910 OPEN
Q906
2SC1815Y
or 2SC1740S.Q
or
2SC1685-Q.TH
CPT
32"WIDE
⚠ V901
W76ESF031X44
PHILIPS
HV
TO T461(FBT)
ANODE LEAD
ON POW.DEF BOARD
FV
F2
F1
SV
S
TO Z410
(FOCUS PACK)
ON WIDE-DEF BOARD
⚠ V901A
SMK(FORCUS x2)
(NEW)
C902
2KV(R)14700
D911
BYD33J
166
165 GND
164 BLK
163 NC
162 Heater
161 NC
160 NC
159 200V
158 200V
TO P903A
ON POWER.DEF BOARD
WITH M903
(HEATER)
C931
500VB1000
R992
15
R920
1FR5.1
G911
PL-100
C909
250V22μ
P903
9P2.5mm
R982 10K
R984 1.5K
R987 680
R988 4.7K
Q913 2SA1015Y
Q907 2SA562TM-Y
Q912 2SA1015Y
Q911 2SC1815Y
Q914 2SC1815Y
9.1
1.7
1.1
1.5
6.1
4.5
0.9
0
9.1
3.8
C920 M0.1
L910 PL-1
R939 100
R981 820
R985 470
R986 680
R983 2.2K
R989 3.3K
C921 M0.1
R991 680
R990 2.2K
Q910
2SC1815Y
2SC1740S.Q
2SC1685-Q.TH
R731 1R330
C712 16V47μ
C713 160V10μ
C721 16V47μ
Q719
2SC1959-Y
11.5
6.5
5.9
R736 56
R742 2.7
D704 1N4148
R744 1.2K
R737 1.5K
D707 OPEN
Q709
2SC1815Y
or
2SC1740S.Q
or
2SC1685-Q.TH
11.5
5.5
R732 22
C715 500VB4700
122.7
122.3
G918 SHORT
C714 100
R733 68K
Q711
2SB1569A
or 2SA1837
L704 TEM2011
6.0
0.1
R724 68
MY
D715 1N4148
R730 1/2RJ10
R738 12K
R735 68K
L705 TEM2011
D721 1N4148
R734 22
C717 500VB4700
64.3
G919 SHORT
0.8
0.3
Q712
2SD2400A
or 2SC4793
5.5
5.2
C716 100
R702 1/2R220
717
3K
Q710
2SA1015Y
or 2SA933S.Q
or 2SA564A-Q.TH
R739 1.5K
R745 1.2K
D705 1N4148
R740 56
R741 2.7
C718 16V47μ
D706 OPEN
L702 HC5-035
C719 500V150
C720 160V10μ
R743 2R100
P703 3P2.5mm
183 184 185
M703
TO DSM PORTOF CPT
V901M
DSM



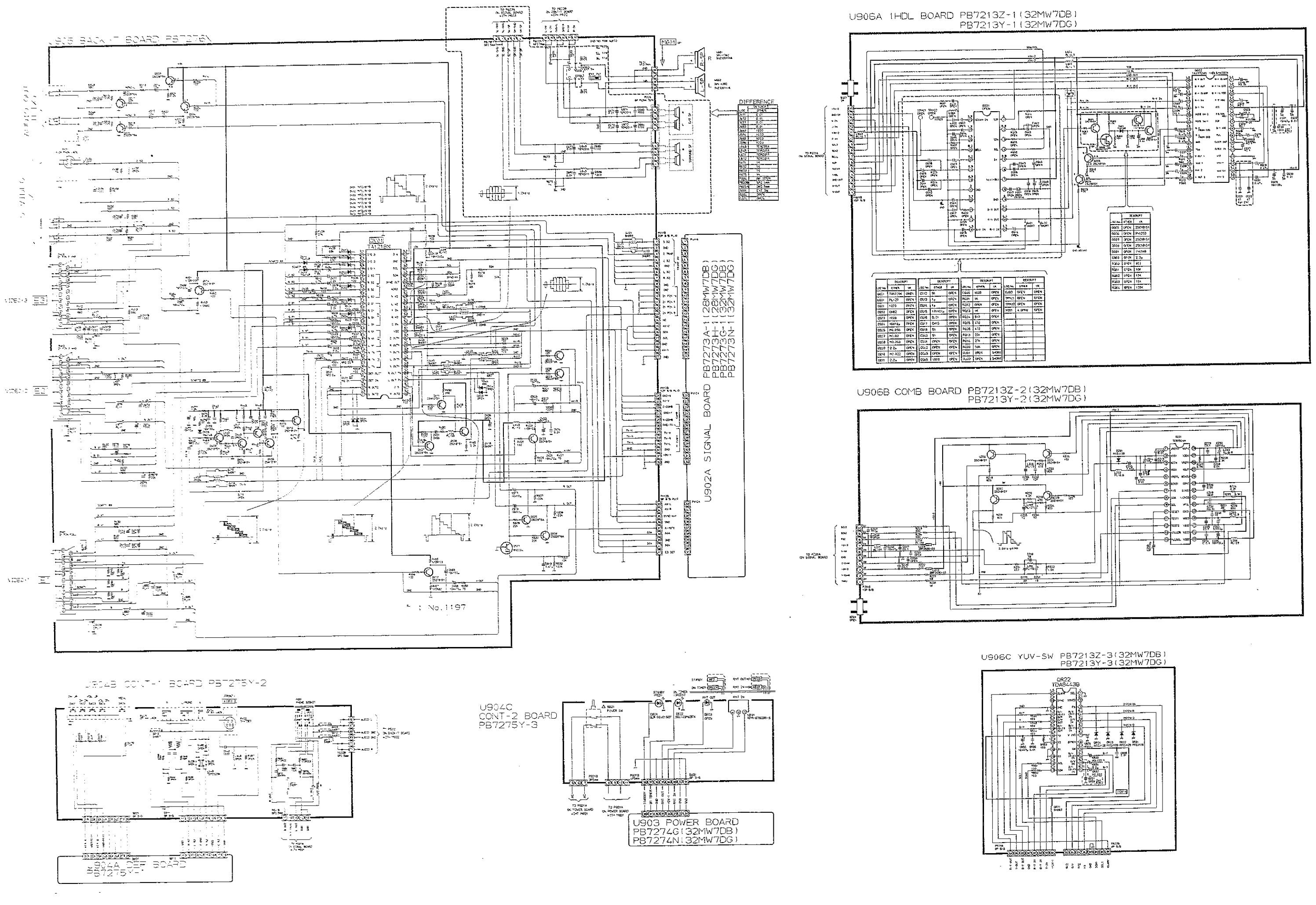
TO H002
IMA MODULE
81μS
5V
SCK
WS
SD01
(IN)
NC
NC
GND
3
4
5
6
7
8
100
RD04
100
RD05
100
RD06
100
PD01
8P B/B
CD14
C0.1
CD15
C0.1
CD16
C0.1
RD09
100
RD10
100
RD11
2.2K
81 VDD
82 RESET-
83 SDA
84 VDD
85 SDE
86 TCK
87 SCK
88 TDI
89 SI
90 GND
91 SCKA
92 WSA
93 VDD
94 SDF
95 WSB
96 D17
97 SCKB
98 D16
99 SPFTX/SDG
100 D15
80 SDB
79 SDC
78 GND
77 A19
76 A18
75 A17
74 D18
73 D19
72 CLKOUT
71 GND
70 VCCA
69 FLTCAP
68 GNDA
67 VDD
66 SCKIN
65 GND
64 XTI
63 XTO
62 P/M-
61 SPFRX
60 BYPASS
59 VDD
58 GP100
57 GP101
QD01
ZR38600
1 A0
2 GND
3 SS-
4 THS
5 INT-
6 VDD
7 D14/R05
8 GND
9 A1
10 A2
11 A3
12 VDD
13 D13/C/D-
14 GP105
15 D12/ERR
16 A4
17 VDD
18 GP104
19 GND
20 A5
21 A6
22 D11/PR7
23 GP103
24 A7
25 A8
RD01
100
CD01
C0.1
CD02
C0.1
CD03
C0.1
RD12
10K


C0.1
C0.1
65 GND
64 XTI
63 XTO
62 P/M-
61 SPFRX
60 BYPASS
59 VDD
58 GP100
57 GP101
56 GP102
55 VDD
54 SDO
53 GND
52 CS-
51 WR-
RD- 50
A16 49
D4/PR0 48
D5/PR1 47
A15 46
VDD 45
GND 44
A14 43
D6/PR2 42
D7/PR3 41
A13 40
TDO 39
A12 38
GND 37
SELECT 36
VDD 35
SO 34
D8/PR4 33
D9/PR5 32
A11 31
16 A4
17 VDD
18 GP104
19 GND
20 A5
21 A6
22 D11/PR7
23 GP103
24 A7
25 A8
26 D10/PR6
27 A9
28 A10
29 GND
30 VDD
CD06
C0.1
CD05
C0.1
RD13
100
CD03
C0.1
RD12
10K
CD04
C0.1
GND
+3.3V
CD23
16V10µ
CD24
C0.1
RD75
10
RD43
100
QD02
AK4309AVM
12 NC
11 NC
10 LRCK
9 SDATA
8 BICK
7 CKS
6 MCLK
5 RST
4 PD
3 DVSS
2 DVDD
1 TST1
NC 13
NC 14
AOUTR 15
AOUTL 16
VCOM 17
AVDD 18
AVSS 19
NC 20
NC 21
VREFH 22
VREFL 23
DZF 24
CD67
16V10µ
RD63
220
CD70
2200
W-OUT
CD66
16V10µ
RD61
220
CD65
2200
C-OUT
CD68
10V100µ
CD69
C0.1
CD72
C0.1
CD73
C0.1
CD74
16V10µ
RD71
10
CD63
16V10µ
CD64
C0.1
QD80
2SC3852 (RA)
2SD1944H (RB)
2SD1405BL (RC)
RD81
1/2R1
RD82
150
DD81
MTZJ3.9B
CD86
C0.1
CD85
10V220µ
CD84
C0.1
CD83
10V220µ
LD83
TEM2011
CD82
C0.1
LD82
TEM2011
LD81
PL-10
CD81
10V220µ
CASE GND
PD30
7P PLUG
1 +5V-2
2 SL-OUT
3 GND
4 SR-OUT
5 GND
5V
0V
0V
0V
0V

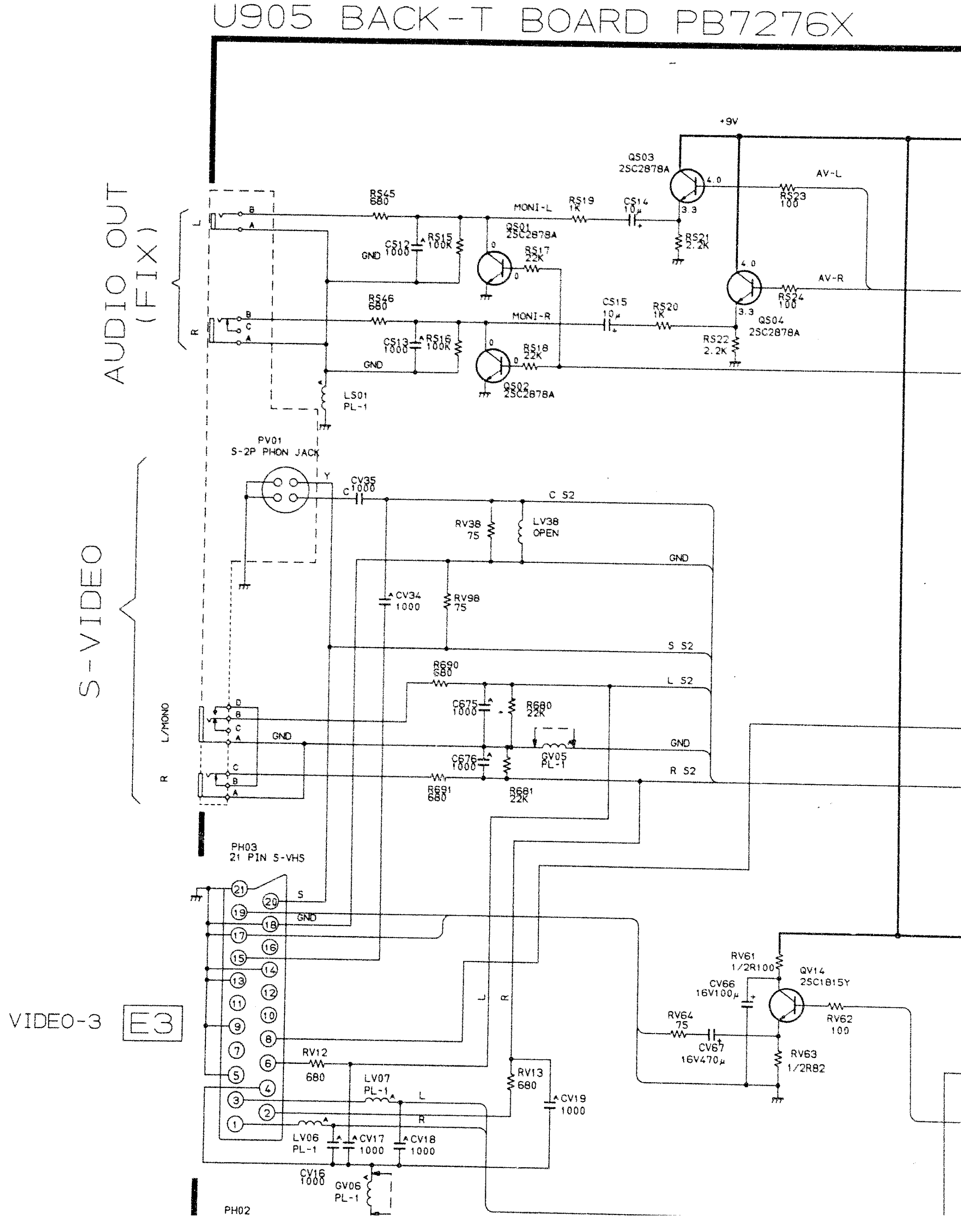


W-OUT
CD70
2200
C-OUT
+9V
RD30
22K
RD31
22K
RD32
22K
RD27
100
C
P5
RD28
100
P4
RD29
100
RD33
100
CD30
16V10μ
P2
RD34
1K
P1
RD35
1K
RD36
100
W
I/O
I²C
D/A CONV
BALANCE
VOLUME
LEVEL
LPF
TOUE CONT
L
R
SDA
SCL
CD47
1μ
RD39
100
RD40
100
CD38
1μ
CD39
1μ
CD40
1μ
RD42
100
RD44
100
CD48
M0.027
CD41
0.01
CD49
M0.082
CD42
16V100μ
CD43
1μ
CD44
M0.027
CD45
M0.0082
CD31
16V22μ
CD32
1μ
CD33
M0.082
CD34
M0.1
CD35
M0.12
CD36
1000
RD41
22K
CD46
M0.027
CD50
M0.082
QD30
TA1217AN
CD56
0.01
CD57
0.01
2011
LD81
PL-10
CD81
10V220μ
CASE GND
SS-
SI
SCK
SO
PD30
7P PLUG
+5V-2
5L-OUT
GND
SR-OUT
GND
W-OUT
C-OUT
5V
0V
0V
0V
0V
4.4V
4.4V
TO SIGNAL BOARD
P2
P1
P5
P4
PD31
13P PLUG
NC
NC
NC
NC
+9V-1
L-OUT
R-OUT
IP2
IP1
SCL2
SDA2
OP5
OP4
9V
4.4V
4.4V

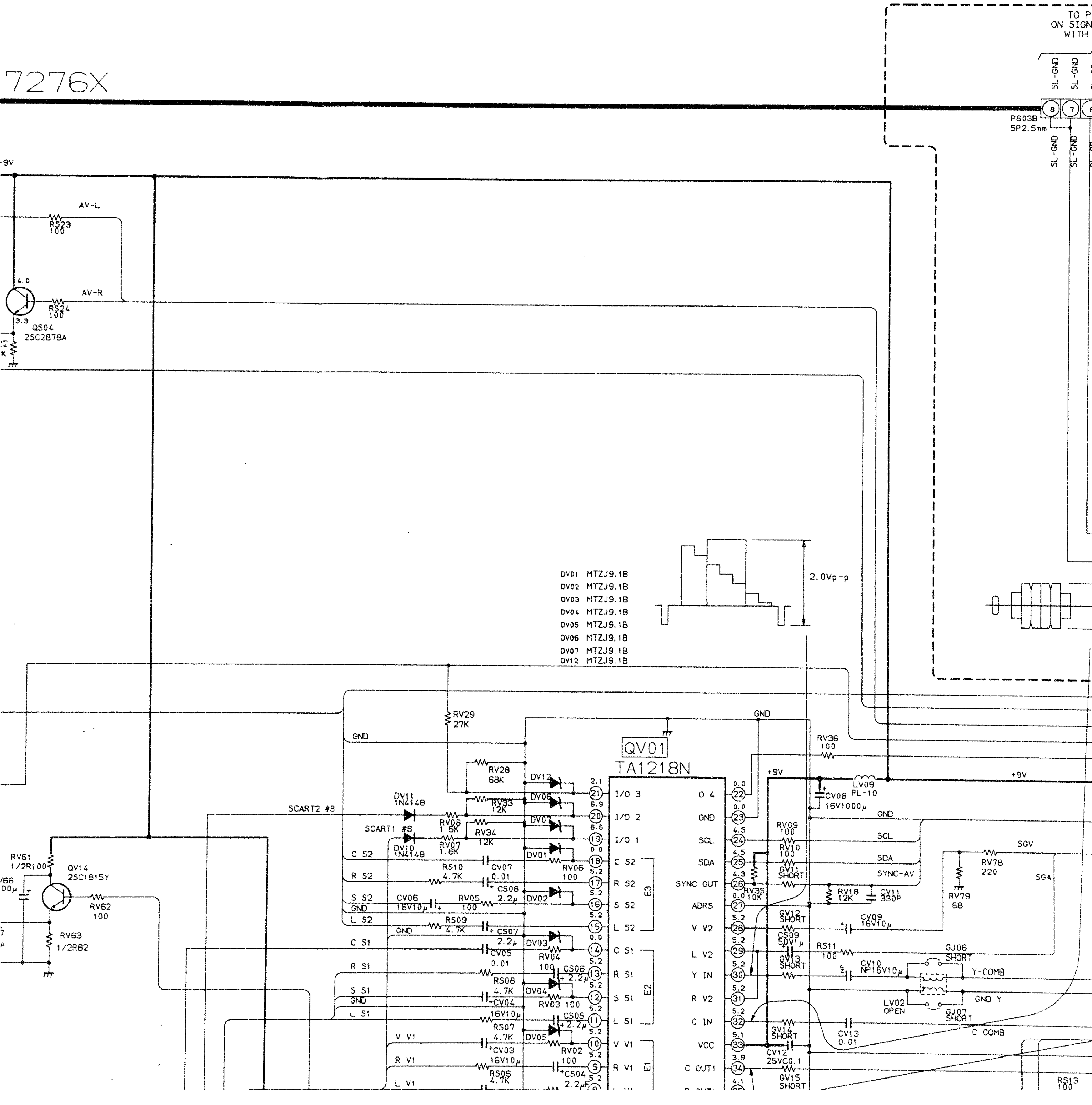
SCHEMATIC DIAGRAM MODEL : 32MW7DB (5/6)
32MW7DG


U905 BACK-IT BOARD PB7276N
DIFFERENCE
U902A SIGNAL BOARD PB7273A-1(28MW7DB)
PB7273H-1(28MW7DG)
PB7273G-1(32MW7DB)
PB7273N-1(32MW7DG)
No.1197
U906A 1HDL BOARD PB7213Z-1(32MW7DB)
PB7213Y-1(32MW7DG)
U906B COMB BOARD PB7213Z-2(32MW7DB)
PB7213Y-2(32MW7DG)
U906C YUV-SW PB7213Z-3(32MW7DB)
PB7213Y-3(32MW7DG)
U904B CONT-1 BOARD PB7275Y-2
U904A DEF BOARD
PB7275Y-1
U904C
CONT-2 BOARD
PB7275Y-3
U903 POWER BOARD
PB7274G(32MW7DB)
PB7274N(32MW7DG)

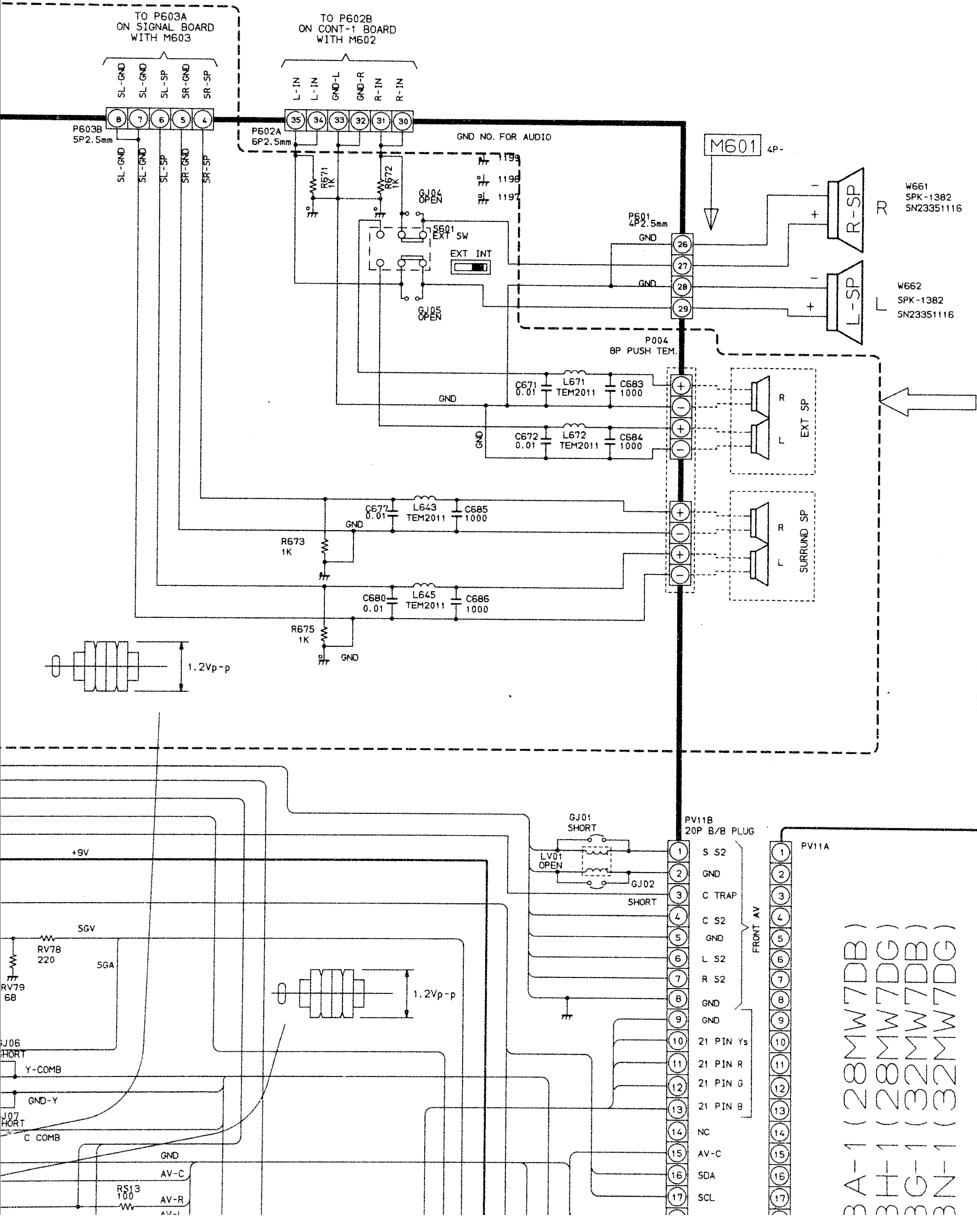
SCHEMATIC DIAGRAM MODEL : 32MW7DB (5/6)
32MW7DG


U905 BACK-T BOARD PB7276X
AUDIO OUT (FIX)
L
R
S-VIDEO
L/MONO
R
VIDEO-3
E3
+9V
QS03
2SC2878A
QS01
2SC2878A
QS02
2SC2878A
QS04
2SC2878A
RS45
680
RS46
680
CS12
1000
CS13
1000
RS15
100K
RS16
100K
RS17
22K
RS18
22K
MONI-L
MONI-R
RS19
1K
RS20
1K
CS14
10μ
CS15
10μ
RS21
2.2K
RS22
2.2K
RS23
100
RS24
100
AV-L
AV-R
4.0
3.3
GND
LS01
PL-1
PV01
S-2P PHON JACK
Y
C
CV35
1000
C S2
RV38
75
LV38
OPEN
CV34
1000
RV98
75
S S2
R690
680
L S2
C675
1000
R680
22K
GV05
PL-1
C676
1000
R691
680
R681
22K
R S2
PH03
21 PIN S-VHS
S
GND
RV12
680
RV13
680
LV07
PL-1
LV06
PL-1
CV16
1000
CV17
1000
CV18
1000
CV19
1000
GV06
PL-1
PH02
RV61
1/2R100
QV14
2SC1815Y
CV66
16V100μ
RV64
75
CV67
16V470μ
RV62
100
RV63
1/2R82
A
B
C
D

(5/6)



TO P
ON SIGN
WITH
SL-GND
SL-GND
P603B
5P2.5mm
7276X
+9V
AV-L
RS23
100
AV-R
RS24
100
4.0
3.3
QS04
2SC2878A
DV01 MTZJ9.1B
DV02 MTZJ9.1B
DV03 MTZJ9.1B
DV04 MTZJ9.1B
DV05 MTZJ9.1B
DV06 MTZJ9.1B
DV07 MTZJ9.1B
DV12 MTZJ9.1B
2.0Vp-p
RV29
27K
GND
QV01
TA1218N
RV28
68K
DV12
DV06
DV07
DV01
DV02
DV03
DV04
DV05
DV11
1N4148
DV10
1N4148
SCART2 #8
SCART1 #8
RV08
1.6K
RV07
1.6K
RV33
12K
RV34
12K
C S2
R S2
S S2
L S2
C S1
R S1
S S1
L S1
V V1
R V1
L V1
RS10
4.7K
CV07
0.01
CS08
2.2μ
RV06
100
CV06
16V10μ
RV05
100
RS09
4.7K
CS07
2.2μ
CV05
0.01
RV04
100
CS06
2.2μ
RS08
4.7K
CV04
16V10μ
RV03 100
CS05
2.2μ
RS07
4.7K
CV03
16V10μ
RV02
100
RS06
4.7K
CS04
2.2μF
I/O 3
I/O 2
I/O 1
C S2
R S2
S S2
L S2
C S1
R S1
S S1
L S1
V V1
R V1
E3
E2
E1
O 4
GND
SCL
SDA
SYNC OUT
ADRS
V V2
L V2
Y IN
R V2
C IN
VCC
C OUT1
RV36
100
CV08
16V1000μ
LV09
PL-10
RV09
100
RV10
100
GV11
SHORT
RV35
10K
RV18
12K
CV11
330P
GV12
SHORT
CV09
16V10μ
CS09
50V1μ
GV13
SHORT
RS11
100
CV10
NP16V10μ
GJ06
SHORT
Y-COMB
LV02
OPEN
GJ07
SHORT
GND-Y
GV14
SHORT
CV13
0.01
C COMB
CV12
25VC0.1
GV15
SHORT
SCL
SDA
SYNC-AV
SGV
RV78
220
SGA
RV79
68
RS13
100
RV61
1/2R100
QV14
2SC1815Y
RV62
100
RV63
1/2R82


TO P603A
ON SIGNAL BOARD
WITH M603
SL-GND
SL-GND
SL-SP
SR-GND
SR-SP
P603B
5P2.5mm
TO P602B
ON CONT-1 BOARD
WITH M602
L-IN
L-IN
GND-L
GND-R
R-IN
R-IN
P602A
6P2.5mm
GND NO. FOR AUDIO
1199
1198
1197
R671
1K
R672
1K
GJ04
OPEN
S601
EXT SW
EXT INT
GJ05
OPEN
M601
4P-
P601
4P2.5mm
GND
GND
W661
SPK-1382
SN23351116
R-SP
R
W662
SPK-1382
SN23351116
L-SP
L
P004
8P PUSH TEM.
C671
0.01
L671
TEM2011
C683
1000
C672
0.01
L672
TEM2011
C684
1000
EXT SP
SURRUND SP
C677
0.01
L643
TEM2011
C685
1000
R673
1K
C680
0.01
L645
TEM2011
C686
1000
R675
1K
1.2Vp-p
+9V
SGV
RV78
220
SGA
RV79
68
GJ06
SHORT
Y-COMB
GND-Y
GJ07
SHORT
C COMB
GND
AV-C
RS13
100
AV-R
GJ01
SHORT
LV01
OPEN
GJ02
SHORT
PV11B
20P B/B PLUG
S S2
GND
C TRAP
C S2
GND
L S2
R S2
GND
GND
FRONT AV
21 PIN Ys
21 PIN R
21 PIN G
21 PIN B
NC
AV-C
SDA
SCL
PV11A
A-1 (28MW7DB)
H-1 (28MW7DG)
G-1 (32MW7DB)
N-1 (32MW7DG)

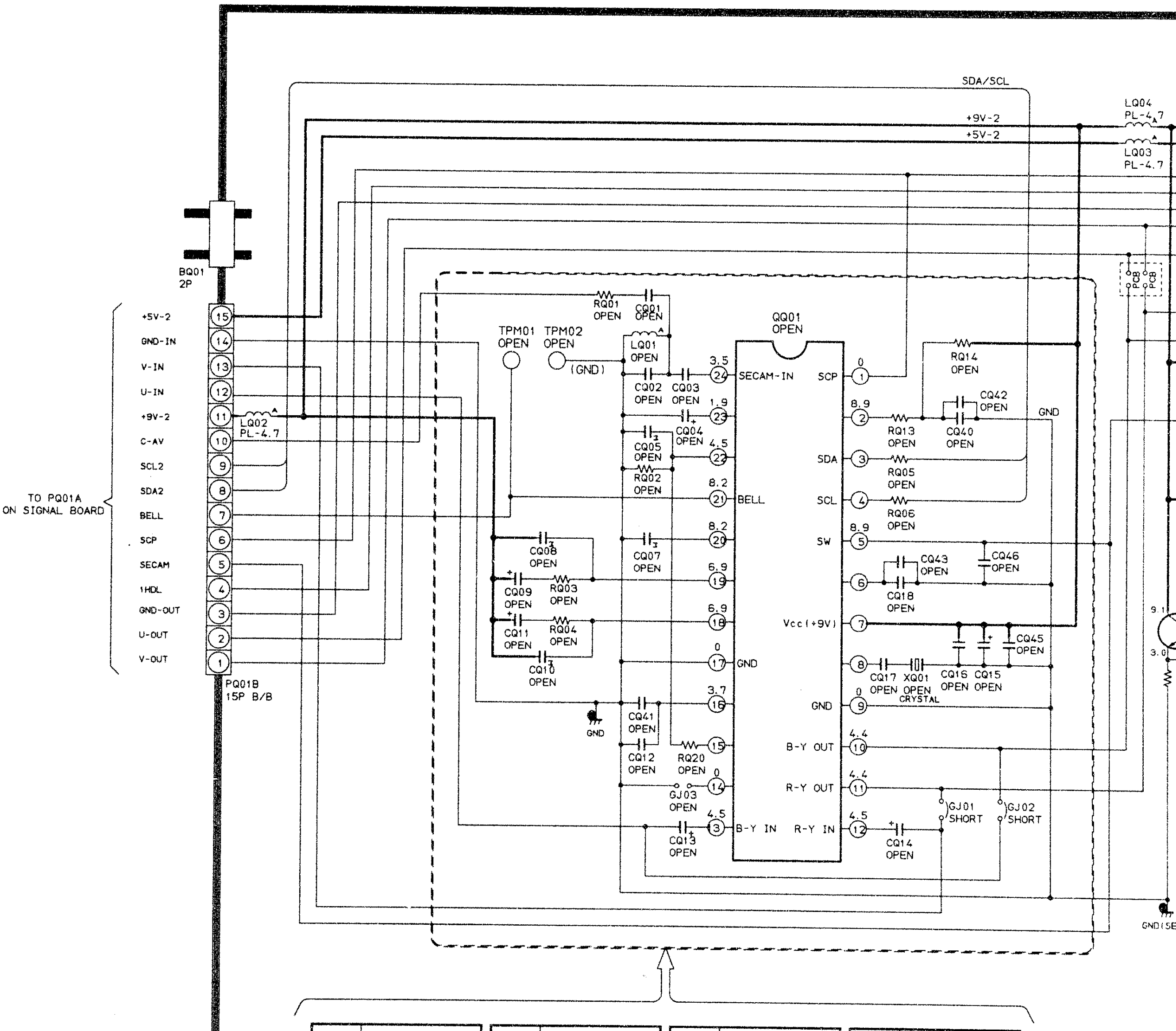
DIFFERENCE

LOC	DESCRIPT OTHER
C671	0.01
C672	0.01
C677	0.01
C680	0.01
C683	1000
C684	1000
C685	1000
C686	1000
L643	TEM2011
L645	TEM2011
L671	TEM2011
L672	TEM2011
R671	1K
R672	1K
R673	1K
R675	1K
P004	8P TERM
P603B	5P2.5mm
P605A	3P2.5mm
S601	EXT SW
GJ04	OPEN
GJ05	OPEN

U906A 1HDL BOARD PB7213Z-1(32MW7DB)
PB7213Y-1(32MW7DG)

IFFERENCE

OC	DESCRIPT
	OTHER
71	0.01
72	0.01
77	0.01
80	0.01
83	1000
84	1000
85	1000
86	1000
43	TEM2011
45	TEM2011
71	TEM2011
72	TEM2011
71	1K
72	1K
73	1K
75	1K
04	8P TERM
03B	5P2.5mm
05A	3P2.5mm
01	EXT SW
04	OPEN
05	OPEN


SDA/SCL
+9V-2
+5V-2
LQ04
PL-4.7
LQ03
PL-4.7
BQ01
2P
TO PQ01A
ON SIGNAL BOARD
+5V-2
GND-IN
V-IN
U-IN
+9V-2
C-AV
SCL2
SDA2
BELL
SCP
SECAM
1HDL
GND-OUT
U-OUT
V-OUT
PQ01B
15P B/B
LQ02
PL-4.7
RQ01
OPEN
CQ01
OPEN
TPM01
OPEN
TPM02
OPEN
(GND)
LQ01
OPEN
QQ01
OPEN
SECAM-IN
SCP
BELL
SDA
SCL
SW
Vcc(+9V)
GND
B-Y OUT
R-Y OUT
B-Y IN
R-Y IN
CQ02
OPEN
CQ03
OPEN
CQ04
OPEN
CQ05
OPEN
RQ02
OPEN
CQ07
OPEN
CQ08
OPEN
CQ09
OPEN
RQ03
OPEN
CQ10
OPEN
CQ11
OPEN
RQ04
OPEN
CQ41
OPEN
GND
CQ12
OPEN
RQ20
OPEN
GJ03
OPEN
CQ13
OPEN
RQ14
OPEN
RQ13
OPEN
CQ40
OPEN
CQ42
OPEN
RQ05
OPEN
RQ06
OPEN
CQ43
OPEN
CQ46
OPEN
CQ18
OPEN
CQ45
OPEN
CQ17
OPEN
XQ01
OPEN
CRYSTAL
CQ16
OPEN
CQ15
OPEN
GJ01
SHORT
GJ02
SHORT
CQ14
OPEN
GND
GND(SE

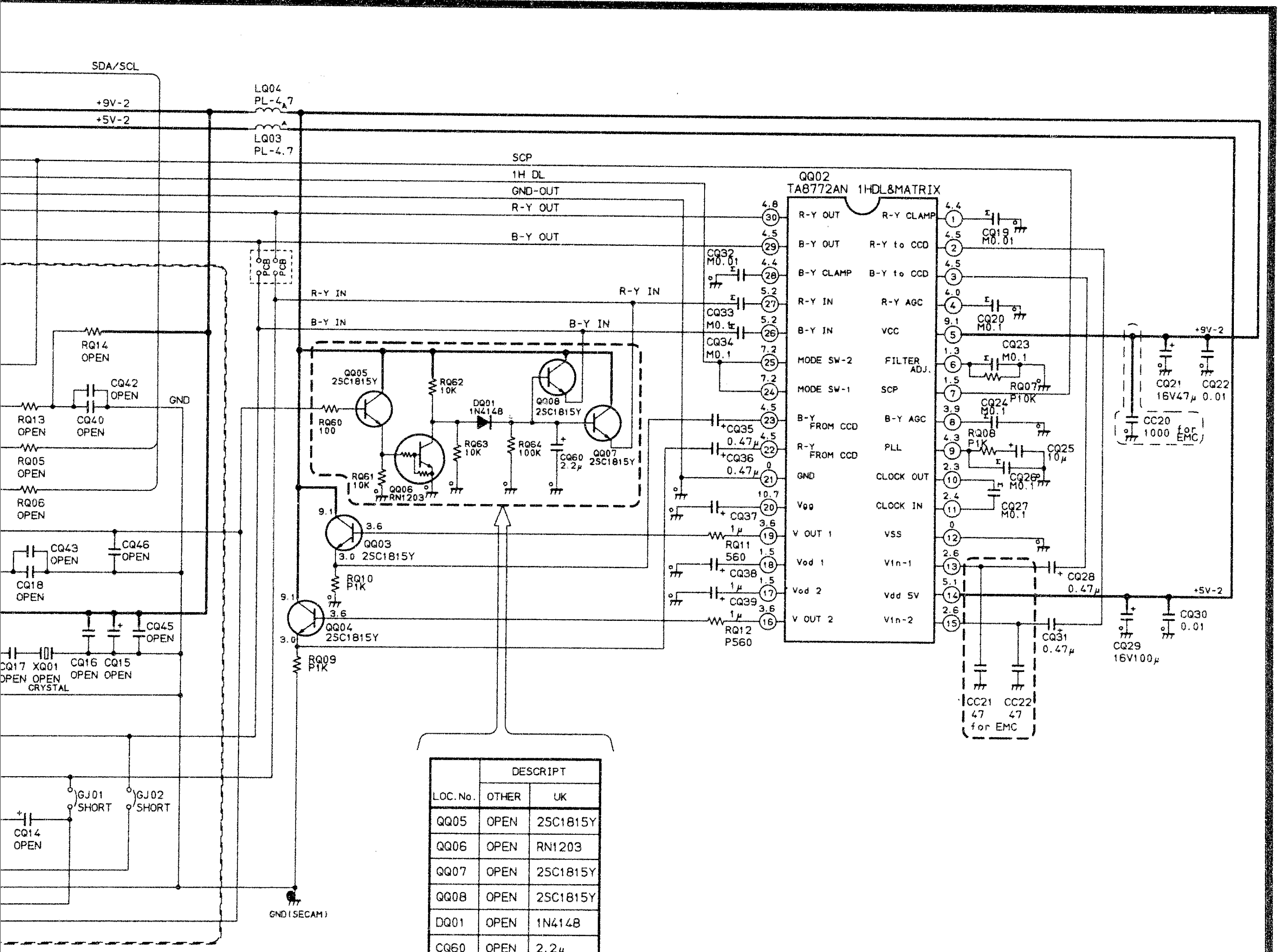
LOC. No.	DESCRIPT	
	OTHER	UK
QQ01	TA1229N	OPEN
LQ01	PL-27	OPEN
CQ01	1000	OPEN
CQ02	CH82	OPEN
CQ03	1000	OPEN
CQ04	16V10μ	OPEN
CQ05	M0.056	OPEN
CQ07	M0.02	OPEN
CQ08	M0.068	OPEN

LOC. No.	DESCRIPT	
	OTHER	UK
CQ12	91	OPEN
CQ13	1μ	OPEN
CQ14	1μ	OPEN
CQ15	16V100μ	OPEN
CQ16	0.01	OPEN
CQ17	CH15	OPEN
CQ18	91	OPEN
CQ40	91	OPEN
CQ41	OPEN	OPEN

LOC. No.	DESCRIPT	
	OTHER	UK
CQ46	1000	OPEN
RQ01	1K	OPEN
RQ02	OPEN	OPEN
RQ03	1K	OPEN
RQ04	510	OPEN
RQ05	470	OPEN
RQ06	470	OPEN
RQ13	20K	OPEN
RQ14	27K	OPEN

LOC. No.	DESCRIPT	
	OTHER	UK
GJ03	OPEN	OPEN
TPM01	OPEN	OPEN
TPM02	OPEN	OPEN
XQ01	4.0MHz	OPEN

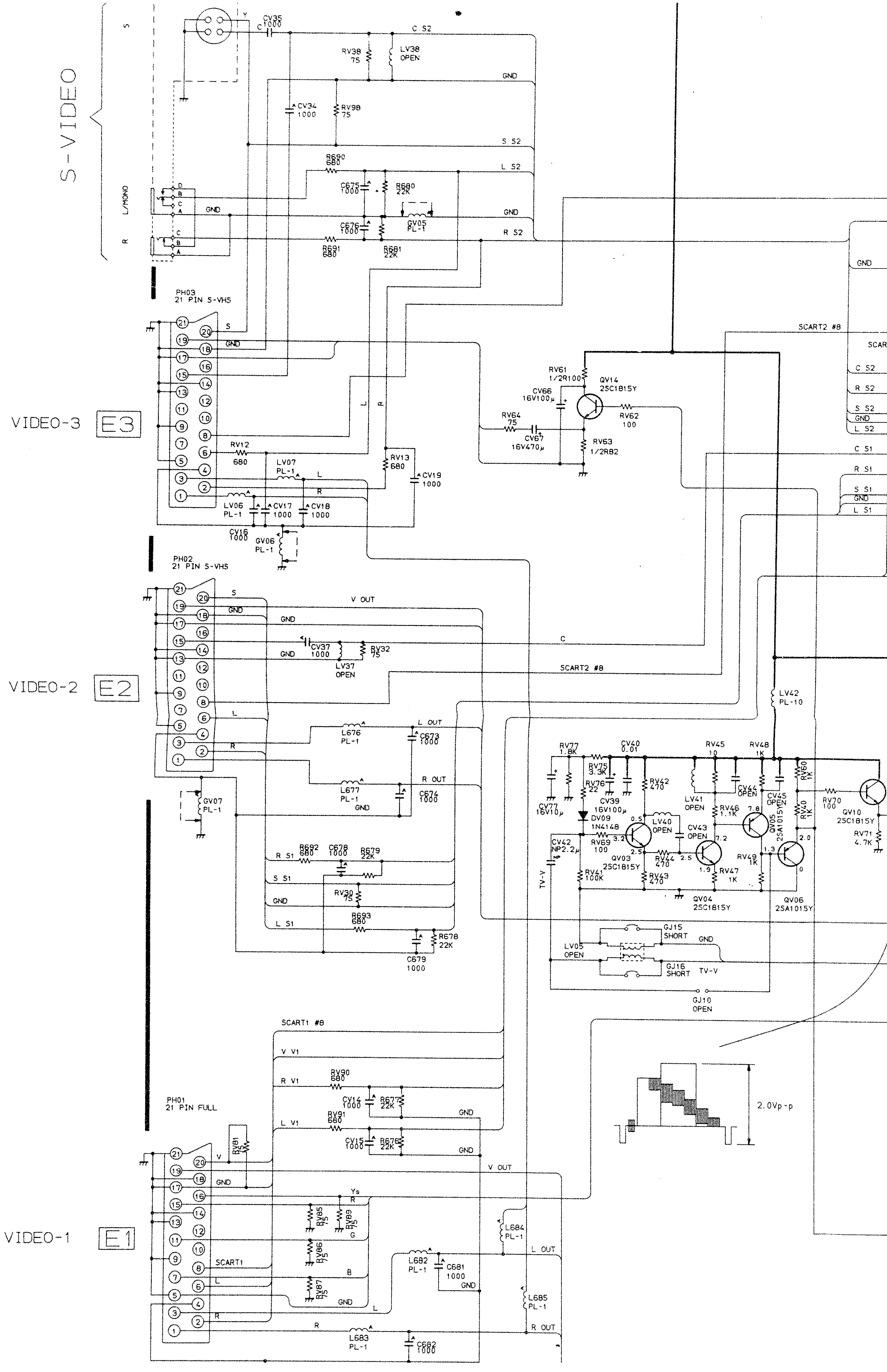
-1 (32MW7DB)
-1 (32MW7DG)

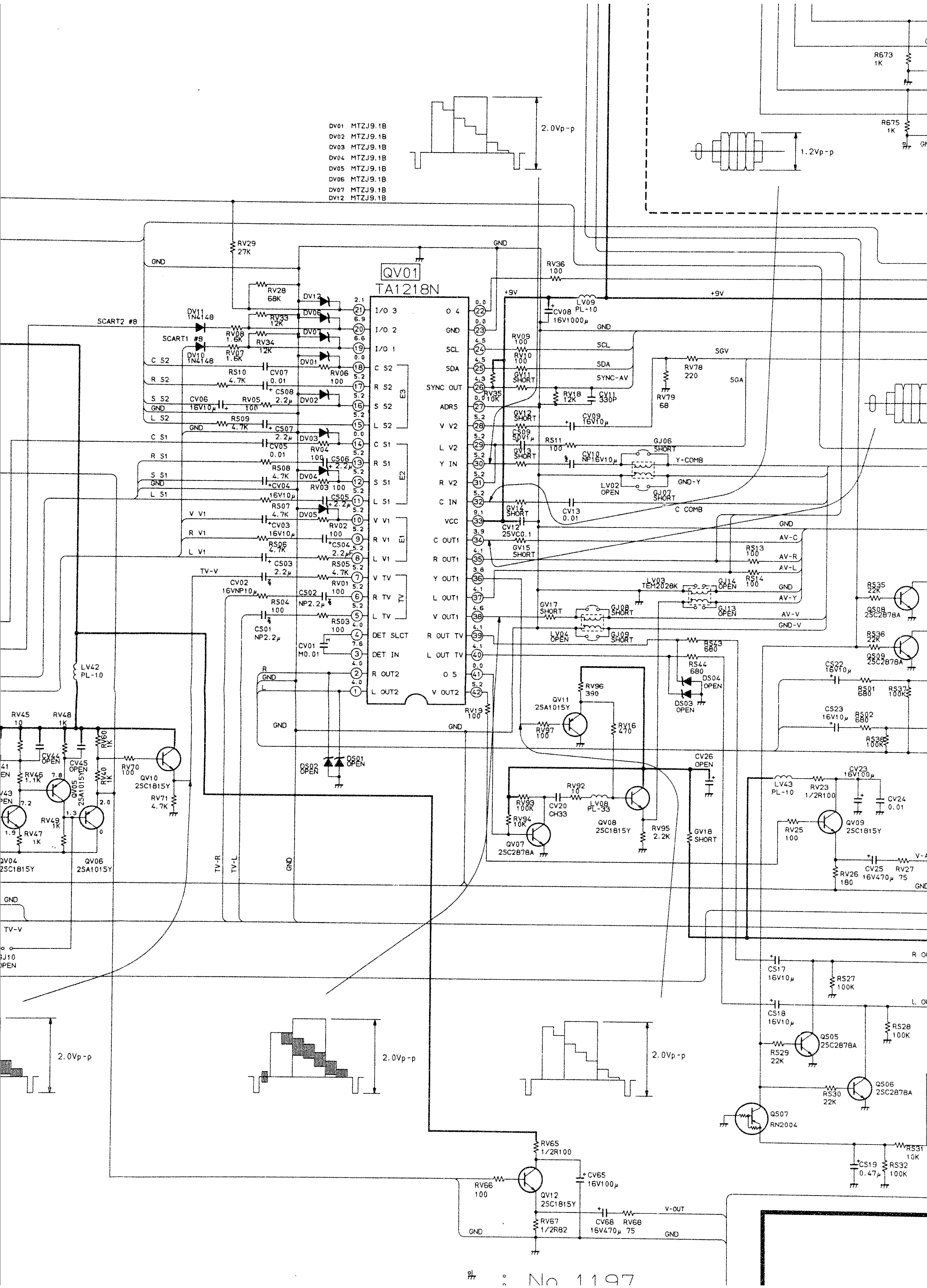


SDA/SCL
+9V-2
+5V-2
LQ04 PL-4.7
LQ03 PL-4.7
SCP
1H DL
GND-OUT
R-Y OUT
B-Y OUT
PCB
R-Y IN
B-Y IN
QQ02
TA8772AN 1HDL&MATRIX
R-Y OUT
B-Y OUT
B-Y CLAMP
R-Y IN
B-Y IN
MODE SW-2
MODE SW-1
B-Y FROM CCD
R-Y FROM CCD
GND
Vgg
V OUT 1
Vod 1
Vod 2
V OUT 2
R-Y CLAMP
R-Y to CCD
B-Y to CCD
R-Y AGC
VCC
FILTER ADJ.
SCP
B-Y AGC
PLL
CLOCK OUT
CLOCK IN
VSS
Vin-1
Vdd 5V
Vin-2
CQ19 M0.01
CQ20 M0.1
CQ23 M0.1
RQ07 P10K
CQ24 M0.1
RQ08 P1K
CQ25 10μ
CQ26 M0.1
CQ27 M0.1
CQ28 0.47μ
CQ31 0.47μ
CQ29 16V100μ
CQ30 0.01
CQ21 16V47μ
CQ22 0.01
CC20 1000 for EMC
CC21 47
CC22 47
for EMC
CQ32 M0.01
CQ33 M0.1
CQ34 M0.1
CQ35 0.47μ
CQ36 0.47μ
CQ37 1μ
RQ11 560
CQ38 1μ
CQ39 1μ
RQ12 P560
QQ05 2SC1815Y
RQ62 10K
DQ01 1N4148
QQ08 2SC1815Y
QQ07 2SC1815Y
RQ60 100
RQ61 10K
QQ06 RN1203
RQ63 10K
RQ64 100K
CQ60 2.2μ
QQ03 2SC1815Y
RQ10 P1K
QQ04 2SC1815Y
RQ09 P1K
RQ14 OPEN
CQ42 OPEN
GND
RQ13 OPEN
CQ40 OPEN
RQ05 OPEN
RQ06 OPEN
CQ43 OPEN
CQ46 OPEN
CQ18 OPEN
CQ45 OPEN
CQ17 OPEN
XQ01 OPEN CRYSTAL
CQ16 OPEN
CQ15 OPEN
GJ01 SHORT
GJ02 SHORT
CQ14 OPEN
GND(SECAM)

LOC. No.	DESCRIPT	
	OTHER	UK
QQ05	OPEN	2SC1815Y
QQ06	OPEN	RN1203
QQ07	OPEN	2SC1815Y
QQ08	OPEN	2SC1815Y
DQ01	OPEN	1N4148
CQ60	OPEN	2.2μ
RQ60	OPEN	100
RQ61	OPEN	10K
RQ62	OPEN	10K
RQ63	OPEN	10K
RQ64	OPEN	100K

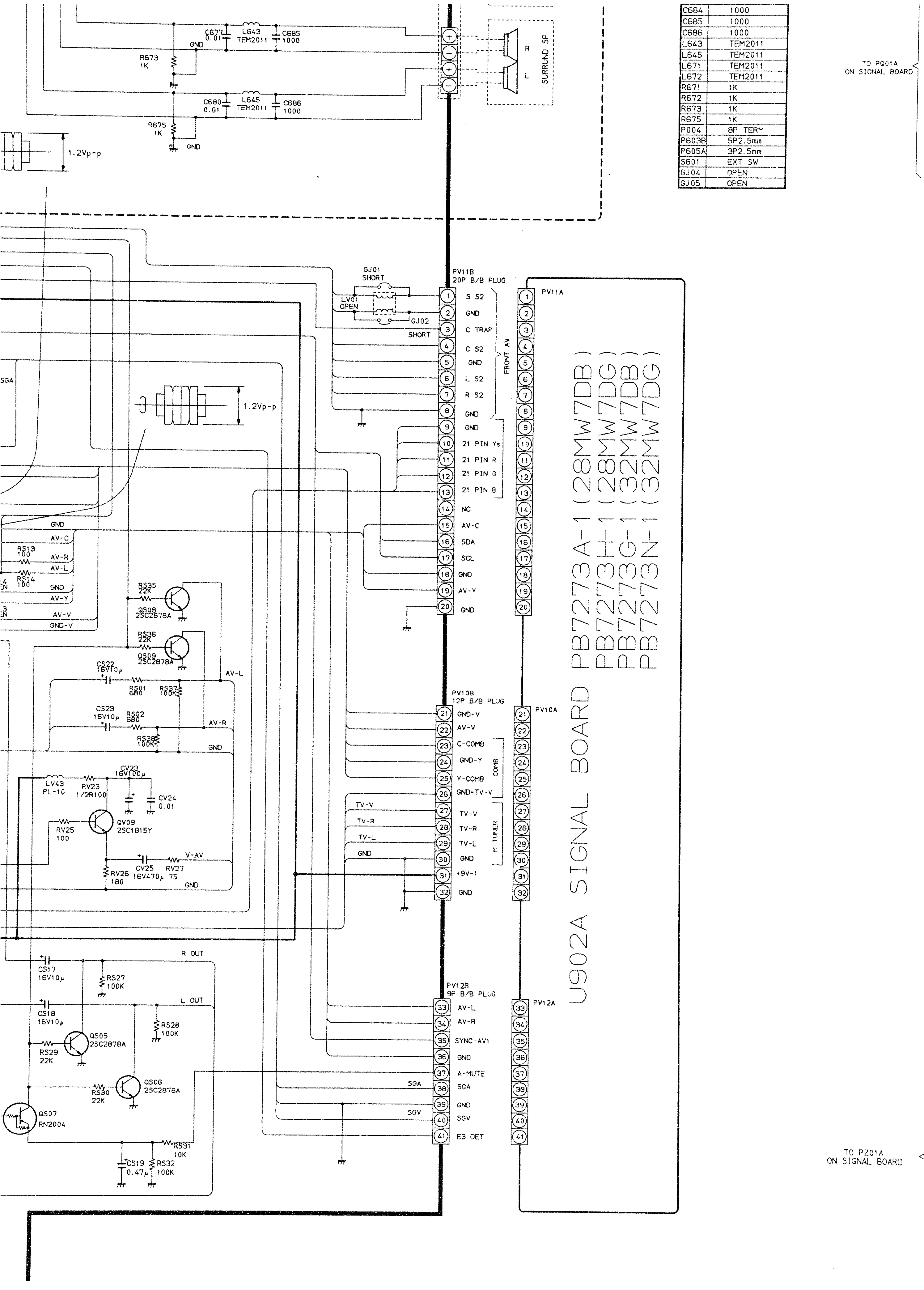
No.	DESCRIPT	
	OTHER	UK
03	OPEN	OPEN
101	OPEN	OPEN
102	OPEN	OPEN
1	4.0MHz	OPEN


S-VIDEO
S
L/MONO
R
CV35 1000
RV38 75
LV38 OPEN
C S2
GND
CV34 1000
RV98 75
S S2
R690 680
L S2
C675 1000
R680 22K
C676 1000
GV05 PL-1
R691 680
R681 22K
R S2
PH03 21 PIN S-VHS
VIDEO-3
E3
RV12 680
LV07 PL-1
RV13 680
CV19 1000
LV06 PL-1
CV17 1000
CV18 1000
CV16 1000
GV06 PL-1
RV61 1/2R100
QV14 2SC1815Y
CV66 16V100μ
RV62 100
RV64 75
CV67 16V470μ
RV63 1/2R82
SCART2 #8
C S2
R S2
S S2
GND
L S2
C S1
R S1
S S1
L S1
PH02 21 PIN S-VHS
VIDEO-2
E2
V OUT
CV37 1000
RV32 75
LV37 OPEN
C
L676 PL-1
C673 1000
L OUT
L677 PL-1
C674 1000
R OUT
GV07 PL-1
R692 680
C678 1000
R679 22K
RV30 75
R693 680
R678 22K
C679 1000
LV42 PL-10
RV77 1.8K
CV40 0.01
RV45 10
RV48 1K
RV60 1K
RV75 3.3K
RV76 22
RV42 470
CV77 16V10μ
CV39 16V100μ
DV09 1N4148
LV41 OPEN
RV46 1.1K
CV44 OPEN
CV45 OPEN
RV40 1K
RV70 100
QV10 2SC1815Y
RV71 4.7K
LV40 OPEN
CV43 OPEN
CV42 NP2.2μ
RV69 100
QV03 2SC1815Y
RV44 470
QV05 2SA1015Y
RV49 1K
RV47 1K
RV41 100K
RV43 470
QV04 2SC1815Y
QV06 2SA1015Y
TV-V
LV05 OPEN
GJ15 SHORT
GJ16 SHORT
GJ10 OPEN
2.0Vp-p
SCART1 #8
V V1
R V1
RV90 680
CV14 1000
R677 22K
L V1
RV91 680
CV15 1000
R676 22K
PH01 21 PIN FULL
VIDEO-1
E1
RV81 75
Ys
RV85 75
RV89 75
RV86 75
RV87 75
SCART1
L684 PL-1
L682 PL-1
C681 1000
L685 PL-1
L683 PL-1
C682 1000

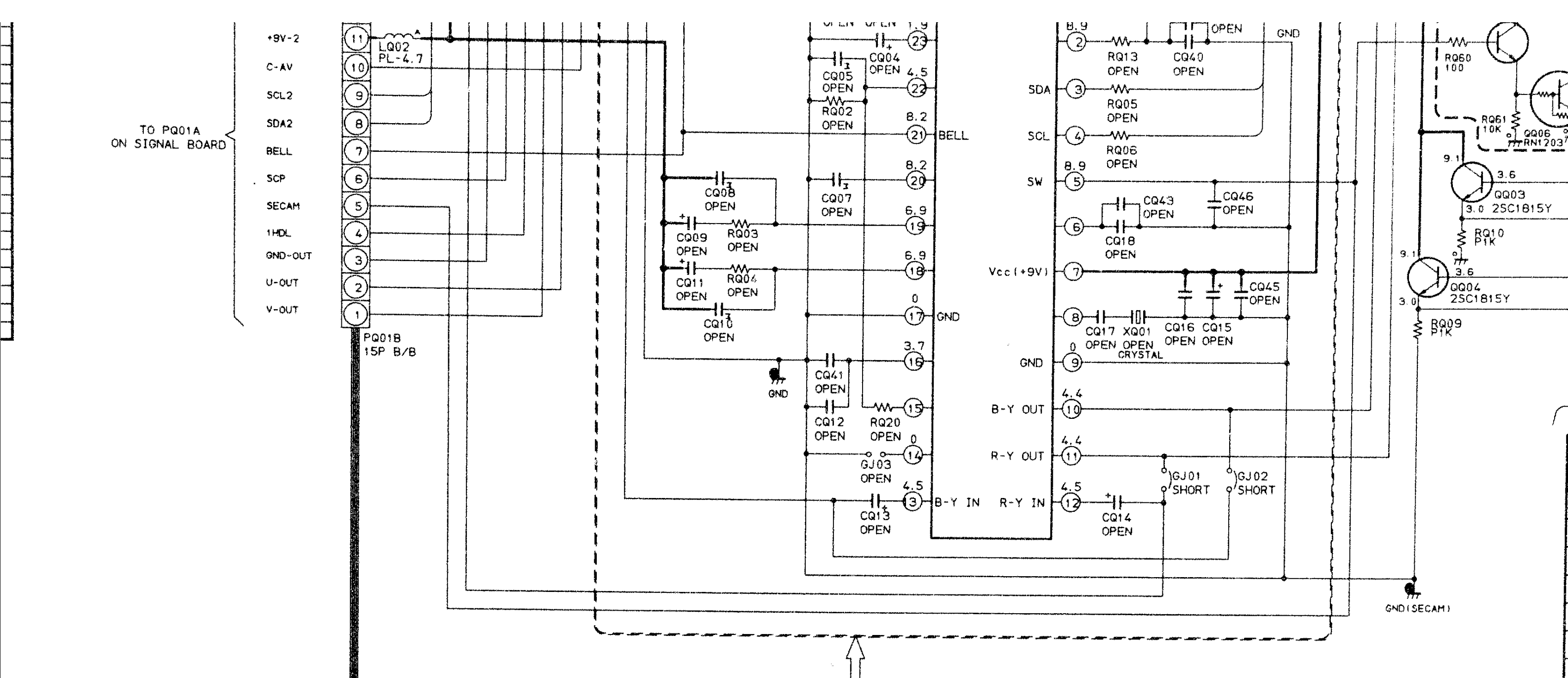

DV01 MTZJ9.1B
DV02 MTZJ9.1B
DV03 MTZJ9.1B
DV04 MTZJ9.1B
DV05 MTZJ9.1B
DV06 MTZJ9.1B
DV07 MTZJ9.1B
DV12 MTZJ9.1B
2.0Vp-p
1.2Vp-p
R673 1K
R675 1K
QV01
TA1218N
I/O 3
I/O 2
I/O 1
C S2
R S2
S S2
L S2
C S1
R S1
S S1
L S1
V V1
R V1
L V1
V TV
R TV
L TV
DET SLCT
DET IN
R OUT2
L OUT2
O 4
GND
SCL
SDA
SYNC OUT
ADRS
V V2
L V2
Y IN
R V2
C IN
VCC
C OUT1
R OUT1
Y OUT1
L OUT1
V OUT1
R OUT TV
L OUT TV
O 5
V OUT2
E3
E2
E1
TV
+9V
GND
SCART2 #8
SCART1 #8
DV11 1N4148
DV10 1N4148
RV29 27K
RV28 68K
RV33 12K
RV34 12K
RV08 1.6K
RV07 1.6K
RV06 100
RS10 4.7K
CV07 0.01
CS08 2.2μ
CV06 16V10μ
RV05 100
RS09 4.7K
CS07 2.2μ
CV05 0.01
RV04 100
CS06 2.2μ
RS08 4.7K
CV04 16V10μ
RV03 100
CS05 2.2μ
RS07 4.7K
CV03 16V10μ
RV02 100
RS06 4.7K
CS04 2.2μ
RS05 4.7K
CS03 2.2μ
RV01 100
CV02 16VNP10μ
CS02 NP2.2μ
RS04 100
RS03 100
CS01 NP2.2μ
CV01 M0.01
TV-V
RV36 100
LV09 PL-10
CV08 16V1000μ
RV09 100
RV10 100
GV11 SHORT
RV35 10K
RV18 12K
CV11 330P
RV78 220
RV79 68
SGV
SGA
SYNC-AV
GV12 SHORT
CV09 16V10μ
CS09 50V1μ
GV13 SHORT
RS11 100
CV10 NP16V10μ
GJ06 SHORT
Y-COMB
LV02 OPEN
GND-Y
GJ07 SHORT
C COMB
GV14 SHORT
CV13 0.01
CV12 25VC0.1
GV15 SHORT
RS13 100
RS14 100
AV-C
AV-R
AV-L
AV-Y
AV-V
GND-V
LV03 TEM2028K
GJ14 OPEN
GJ13 OPEN
GV17 SHORT
GJ08 SHORT
LV04 OPEN
GJ09 SHORT
RS43 680
RS44 680
DS04 OPEN
DS03 OPEN
RV19 100
RV96 390
QV11 2SA1015Y
RV97 100
RV16 470
DS01 OPEN
DS02 OPEN
CV26 OPEN
RV92 10
RV93 100K
CV20 CH33
LV08 PL-33
RV94 10K
QV07 2SC2878A
QV08 2SC1815Y
RV95 2.2K
GV18 SHORT
RV45 10
RV48 1K
LV42 PL-10
CV44 OPEN
CV45 OPEN
RV60 1K
RV40 1K
RV70 100
QV10 2SC1815Y
RV71 4.7K
RV46 1.1K
QV05 2SA1015Y
RV49 1K
RV47 1K
QV04 2SC1815Y
QV06 2SA1015Y
TV-R
TV-L
GJ10 OPEN
RS35 22K
QS08 2SC2878A
RS36 22K
QS09 2SC2878A
CS22 16V10μ
RS01 680
RS37 100K
CS23 16V10μ
RS02 680
RS38 100K
LV43 PL-10
RV23 1/2R100
CV23 16V100μ
CV24 0.01
QV09 2SC1815Y
RV25 100
RV26 180
CV25 16V470μ
RV27 75
CS17 16V10μ
RS27 100K
CS18 16V10μ
RS28 100K
QS05 2SC2878A
RS29 22K
QS06 2SC2878A
RS30 22K
QS07 RN2004
RS31 10K
CS19 0.47μ
RS32 100K
RV65 1/2R100
RV66 100
QV12 2SC1815Y
CV65 16V100μ
RV67 1/2R82
CV68 16V470μ
RV68 75
V-OUT

No 1197

C684	1000
C685	1000
C686	1000
L643	TEM2011
L645	TEM2011
L671	TEM2011
L672	TEM2011
R671	1K
R672	1K
R673	1K
R675	1K
P004	8P TERM
P603B	5P2.5mm
P605A	3P2.5mm
S601	EXT SW
GJ04	OPEN
GJ05	OPEN

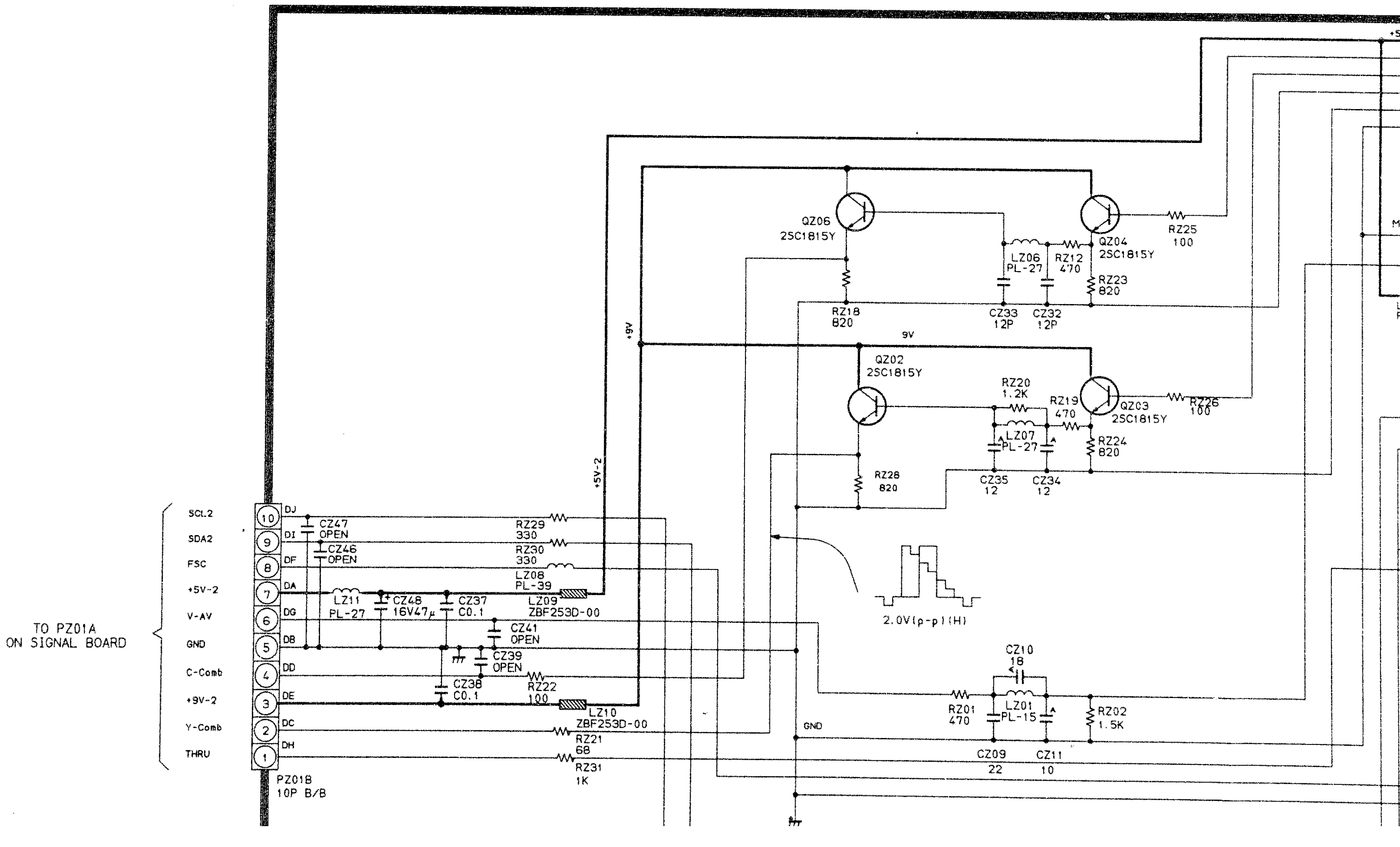


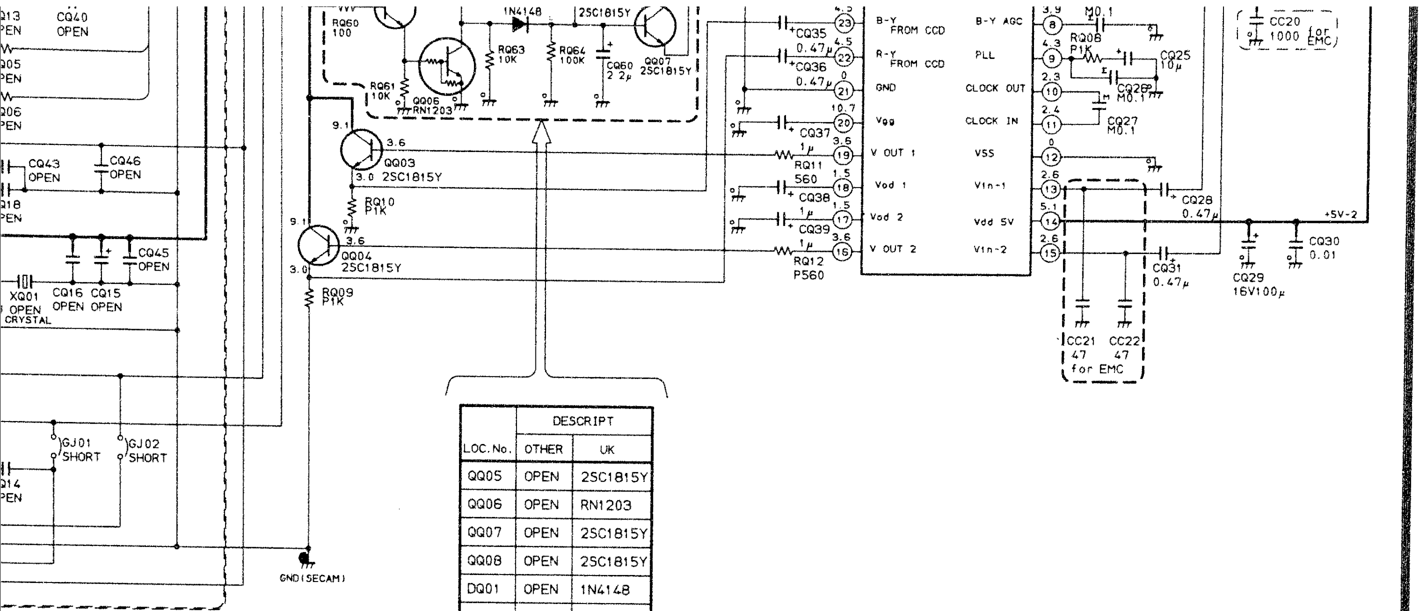
C677 0.01
L643 TEM2011
C685 1000
GND
R673 1K
C680 0.01
L645 TEM2011
C686 1000
R675 1K
GND
1.2Vp-p
R
L
SURRUND SP
TO PQ01A ON SIGNAL BOARD
GJ01 SHORT
LV01 OPEN
GJ02 SHORT
PV11B 20P B/B PLUG
S S2
GND
C TRAP
C S2
GND
L S2
R S2
GND
FRONT AV
GND
21 PIN Ys
21 PIN R
21 PIN G
21 PIN B
NC
AV-C
SDA
SCL
GND
AV-Y
GND
PV11A
SGA
1.2Vp-p
GND
AV-C
RS13 100
AV-R
AV-L
RS14 100
GND
AV-Y
AV-V
GND-V
RS35 22K
QS08 2SC2878A
RS36 22K
QS09 2SC2878A
AV-L
CS22 16V10μ
RS01 680
RS37 100K
CS23 16V10μ
RS02 680
AV-R
RS38 100K
GND
LV43 PL-10
RV23 1/2R100
CV23 16V100μ
CV24 0.01
RV25 100
QV09 2SC1815Y
V-AV
RV26 180
CV25 16V470μ
RV27 75
GND
PV10B 12P B/B PLUG
GND-V
AV-V
C-COMB
GND-Y
Y-COMB
GND-TV-V
COMB
TV-V
TV-R
TV-L
GND
TV-V
TV-R
TV-L
GND
+9V-1
GND
M TUNER
PV10A
PB7273A-1(28MW7DB)
PB7273H-1(28MW7DG)
PB7273G-1(32MW7DB)
PB7273N-1(32MW7DG)
U902A SIGNAL BOARD
R OUT
CS17 16V10μ
RS27 100K
L OUT
CS18 16V10μ
RS28 100K
QS05 2SC2878A
RS29 22K
QS06 2SC2878A
RS30 22K
QS07 RN2004
RS31 10K
CS19 0.47μ
RS32 100K
PV12B 9P B/B PLUG
AV-L
AV-R
SYNC-AV1
GND
A-MUTE
SGA
SGA
GND
SGV
SGV
E3 DET
PV12A
TO PZ01A ON SIGNAL BOARD


+9V-2
C-AV
SCL2
SDA2
BELL
SCP
SECAM
1HDL
GND-OUT
U-OUT
V-OUT
TO PQ01A
ON SIGNAL BOARD
PQ01B
15P B/B
LQ02
PL-4.7
CQ04
OPEN
CQ05
OPEN
RQ02
OPEN
CQ08
OPEN
CQ07
OPEN
CQ09
OPEN
RQ03
OPEN
CQ11
OPEN
RQ04
OPEN
CQ10
OPEN
CQ41
OPEN
GND
CQ12
OPEN
RQ20
OPEN
GJ03
OPEN
CQ13
OPEN
BELL
GND
B-Y IN
R-Y IN
SDA
SCL
SW
Vcc(+9V)
GND
B-Y OUT
R-Y OUT
RQ13
OPEN
CQ40
OPEN
RQ05
OPEN
RQ06
OPEN
CQ43
OPEN
CQ46
OPEN
CQ18
OPEN
CQ45
OPEN
CQ17
OPEN
XQ01
OPEN
CRYSTAL
CQ16
OPEN
CQ15
OPEN
GJ01
SHORT
GJ02
SHORT
CQ14
OPEN
RQ60
100
RQ61
10K
QQ06
RN1203
QQ03
2SC1815Y
RQ10
P1K
QQ04
2SC1815Y
RQ09
P1K
GND(SECAM)

LOC.No.	DESCRIPT	
	OTHER	UK
QQ01	TA1229N	OPEN
LQ01	PL-27	OPEN
CQ01	1000	OPEN
CQ02	CH82	OPEN
CQ03	1000	OPEN
CQ04	16V10μ	OPEN
CQ05	M0.056	OPEN
CQ07	M0.02	OPEN
CQ08	M0.068	OPEN
CQ09	2.2μ	OPEN
CQ10	M0.022	OPEN
CQ11	2.2μ	OPEN
CQ12	91	OPEN
CQ13	1μ	OPEN
CQ14	1μ	OPEN
CQ15	16V100μ	OPEN
CQ16	0.01	OPEN
CQ17	CH15	OPEN
CQ18	91	OPEN
CQ40	91	OPEN
CQ41	OPEN	OPEN
CQ42	OPEN	OPEN
CQ43	OPEN	OPEN
CQ45	1000	OPEN
CQ46	1000	OPEN
RQ01	1K	OPEN
RQ02	OPEN	OPEN
RQ03	1K	OPEN
RQ04	510	OPEN
RQ05	470	OPEN
RQ06	470	OPEN
RQ13	20K	OPEN
RQ14	27K	OPEN
RQ20	56K	OPEN
GJ01	OPEN	SHORT
GJ02	OPEN	SHORT
GJ03	OPEN	OPEN
TPM01	OPEN	OPEN
TPM02	OPEN	OPEN
XQ01	4.0MHz	OPEN

U906B COMB BOARD PB7213Z-2(32MW7DB)
PB7213Y-2(32MW7DG)

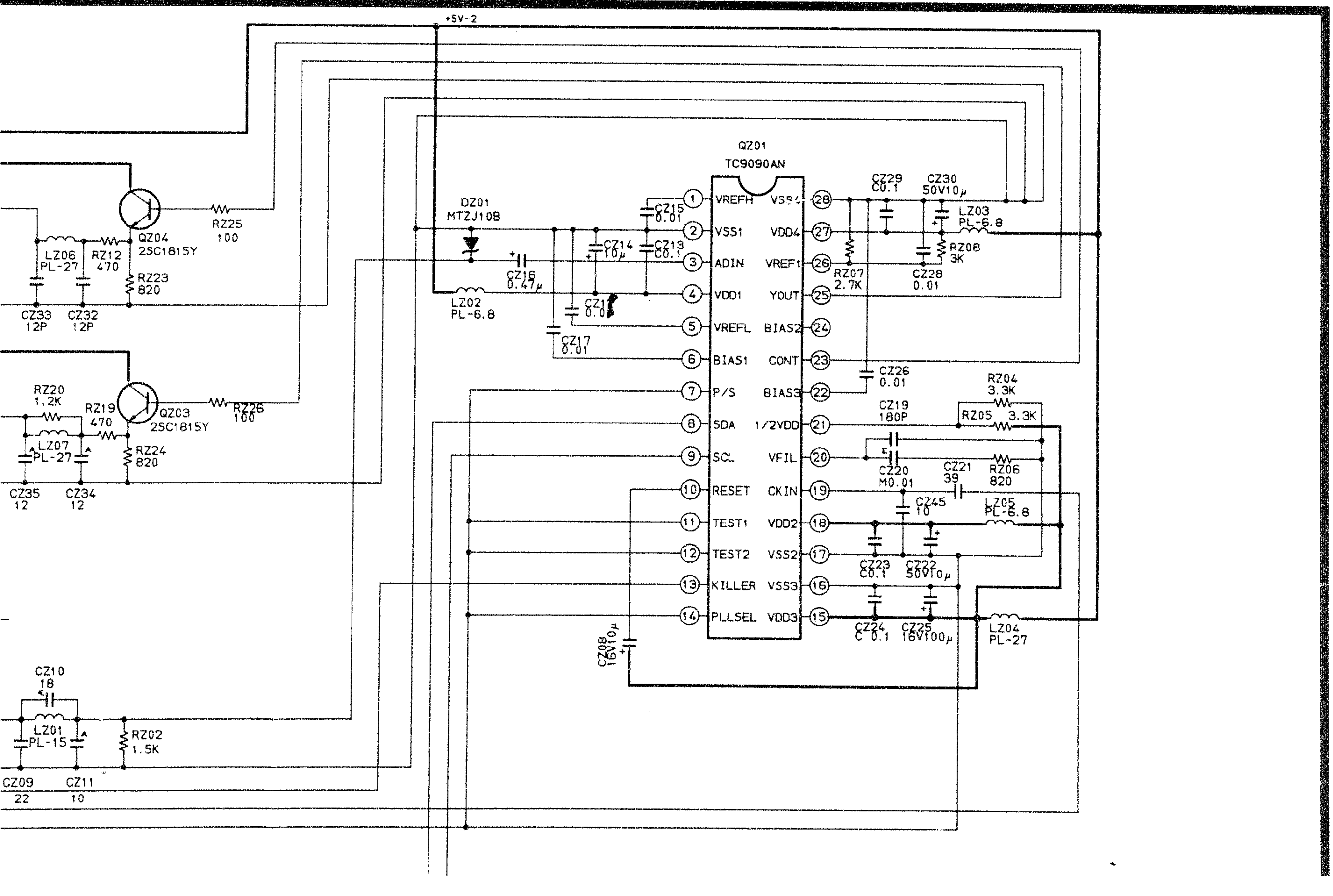

SCL2
SDA2
FSC
+5V-2
V-AV
GND
C-Comb
+9V-2
Y-Comb
THRU
TO PZ01A
ON SIGNAL BOARD
PZ01B
10P B/B
CZ47
OPEN
CZ46
OPEN
LZ11
PL-27
CZ48
16V47μ
CZ37
C0.1
CZ41
OPEN
CZ39
OPEN
CZ38
C0.1
RZ29
330
RZ30
330
LZ08
PL-39
LZ09
ZBF253D-00
RZ22
100
LZ10
ZBF253D-00
RZ21
68
RZ31
1K
+5V-2
+9V
QZ06
2SC1815Y
RZ18
820
LZ06
PL-27
RZ12
470
QZ04
2SC1815Y
RZ23
820
CZ33
12P
CZ32
12P
RZ25
100
9V
QZ02
2SC1815Y
RZ20
1.2K
RZ19
470
QZ03
2SC1815Y
RZ26
100
LZ07
PL-27
RZ24
820
RZ28
820
CZ35
12
CZ34
12
2.0V(p-p)(H)
CZ10
18
RZ01
470
LZ01
PL-15
RZ02
1.5K
CZ09
22
CZ11
10
GND

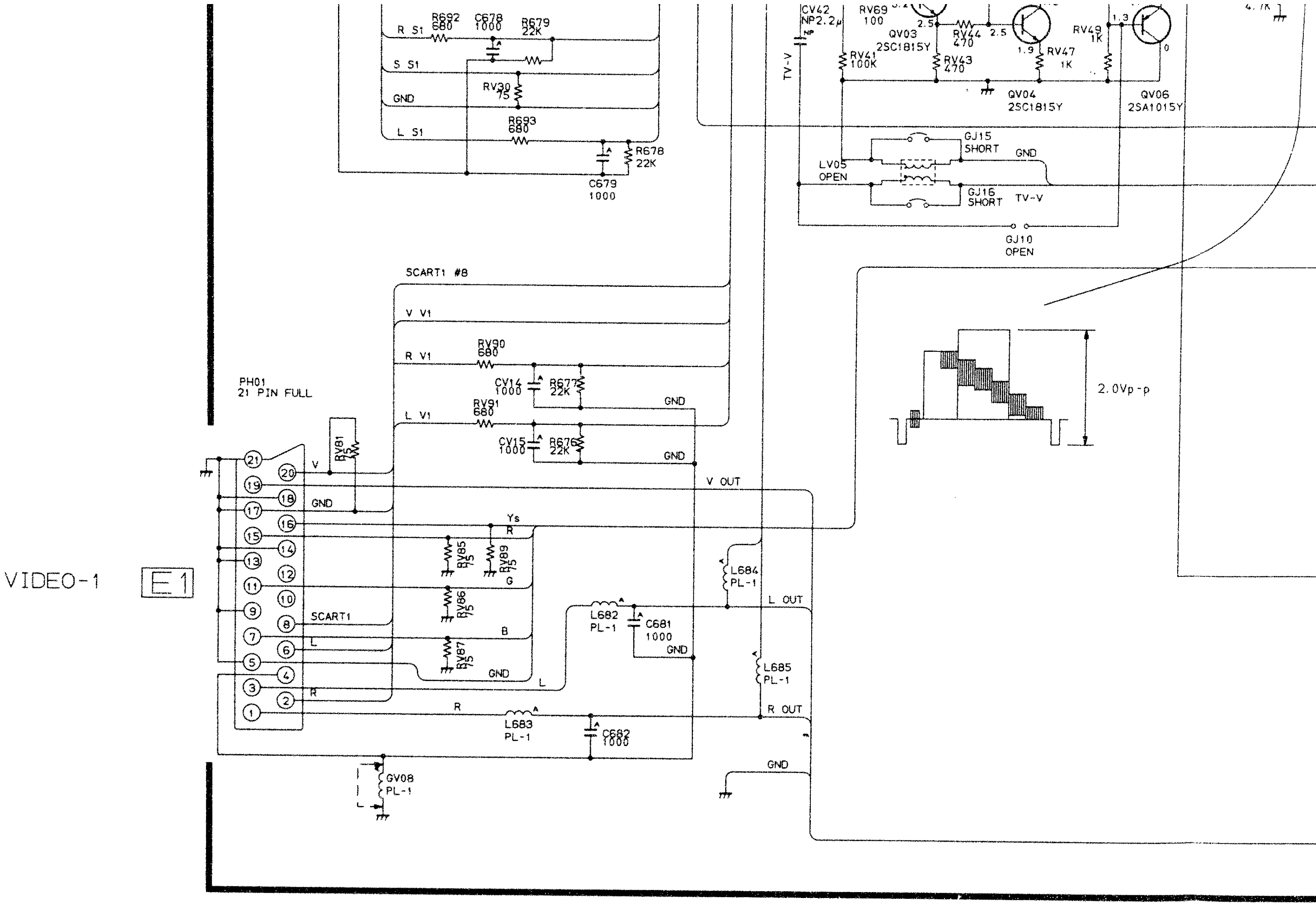

CQ40 OPEN
RQ60 100
1N4148
2SC1815Y
RQ63 10K
RQ64 100K
CQ60 2.2μ
QQ07 2SC1815Y
RQ61 10K
QQ06 RN1203
QQ03 2SC1815Y
RQ10 P1K
QQ04 2SC1815Y
RQ09 P1K
CQ43 OPEN
CQ46 OPEN
CQ45 OPEN
XQ01 OPEN CRYSTAL
CQ16 OPEN
CQ15 OPEN
GJ01 SHORT
GJ02 SHORT
GND(SECAM)
CQ35 0.47μ
CQ36 0.47μ
CQ37 1μ
RQ11 560
CQ38 1μ
CQ39 1μ
RQ12 P560
B-Y FROM CCD
R-Y FROM CCD
GND
Vgg
V OUT 1
Vod 1
Vod 2
V OUT 2
B-Y AGC
PLL
CLOCK OUT
CLOCK IN
VSS
Vin-1
Vdd 5V
Vin-2
M0.1
RQ08 P1K
CQ25 10μ
CQ26 M0.1
CQ27 M0.1
CC20 1000 for EMC
CQ28 0.47μ
+5V-2
CQ29 16V100μ
CQ30 0.01
CQ31 0.47μ
CC21 47
CC22 47
for EMC

LOC.No.	DESCRIPT	
	OTHER	UK
QQ05	OPEN	2SC1815Y
QQ06	OPEN	RN1203
QQ07	OPEN	2SC1815Y
QQ08	OPEN	2SC1815Y
DQ01	OPEN	1N4148
CQ60	OPEN	2.2μ
RQ60	OPEN	100
RQ61	OPEN	10K
RQ62	OPEN	10K
RQ63	OPEN	10K
RQ64	OPEN	100K

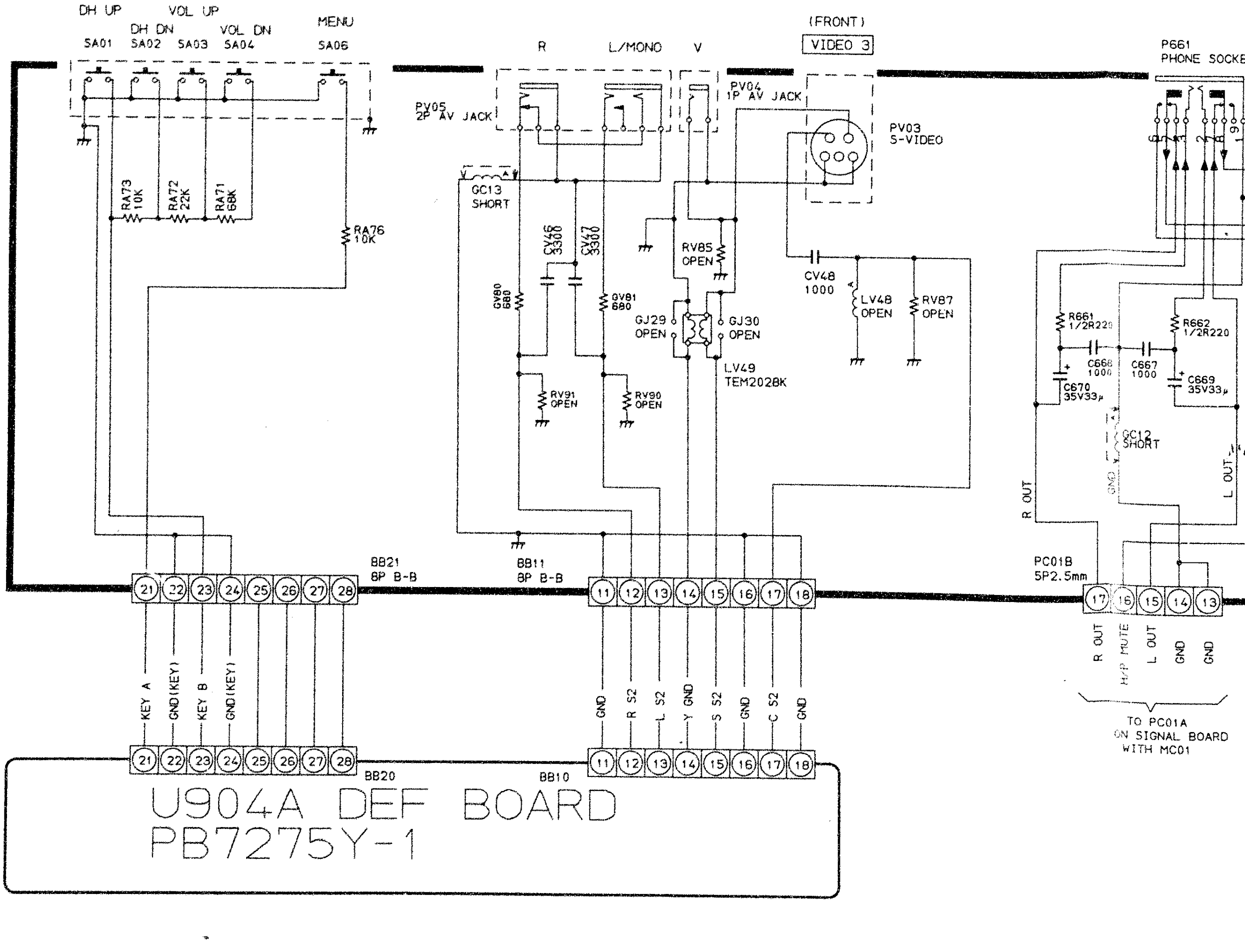
DESCRIPT	
OTHER	UK
OPEN	OPEN
OPEN	OPEN
OPEN	OPEN
4.0MHz	OPEN

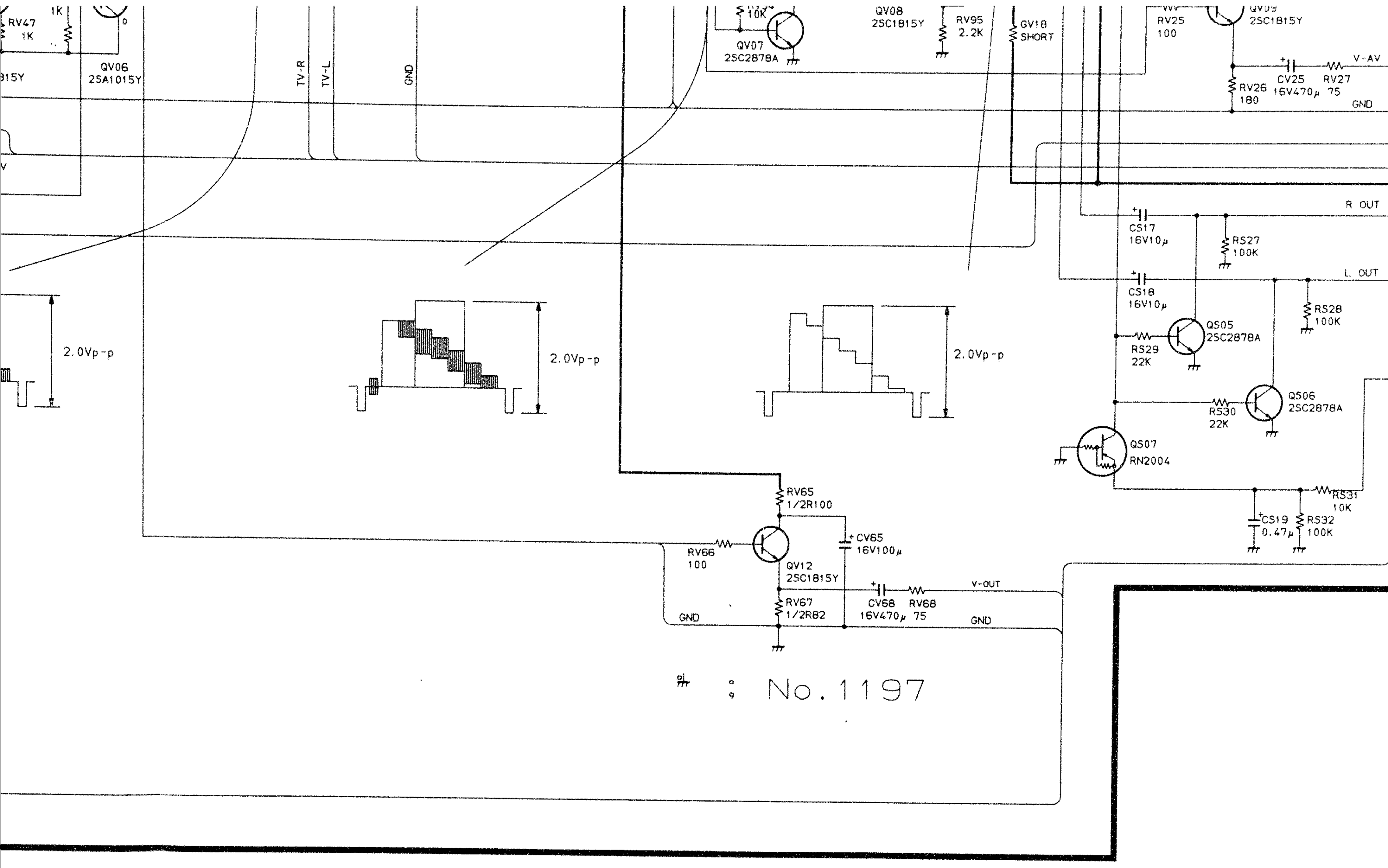
-2 (32MW7DB)
-2 (32MW7DG)


+5V-2
QZ01
TC9090AN
VREFH
VSS1
ADIN
VDD1
VREFL
BIAS1
P/S
SDA
SCL
RESET
TEST1
TEST2
KILLER
PLLSEL
VSS4
VDD4
VREF1
YOUT
BIAS2
CONT
BIAS3
1/2VDD
VFIL
CKIN
VDD2
VSS2
VSS3
VDD3
DZ01 MTZJ10B
CZ15 0.01
CZ14 10μ
CZ13 C0.1
CZ16 0.47μ
CZ17 0.01
LZ02 PL-6.8
CZ29 C0.1
CZ30 50V10μ
LZ03 PL-6.8
RZ08 3K
RZ07 2.7K
CZ28 0.01
CZ26 0.01
CZ19 180P
RZ04 3.3K
RZ05 3.3K
CZ20 M0.01
CZ21 39
RZ06 820
CZ45 10
LZ05 PL-6.8
CZ23 C0.1
CZ22 50V10μ
CZ24 C 0.1
CZ25 16V100μ
LZ04 PL-27
CZ08 16V10μ
QZ04 2SC1815Y
RZ25 100
LZ06 PL-27
RZ12 470
RZ23 820
CZ33 12P
CZ32 12P
RZ20 1.2K
RZ19 470
QZ03 2SC1815Y
RZ26 100
LZ07 PL-27
RZ24 820
CZ35 12
CZ34 12
CZ10 18
LZ01 PL-15
RZ02 1.5K
CZ09 22
CZ11 10


VIDEO-1
E1
PH01
21 PIN FULL
SCART1 #8
V V1
R V1
L V1
R S1
S S1
GND
L S1
R692 680
C678 1000
R679 22K
RV30 75
R693 680
C679 1000
R678 22K
RV90 680
CV14 1000
R677 22K
RV91 680
CV15 1000
R676 22K
RV81 75
V OUT
Ys
RV85 75
RV89 75
RV86 75
RV87 75
SCART1
L684 PL-1
L OUT
L682 PL-1
C681 1000
L685 PL-1
R OUT
L683 PL-1
C682 1000
GV08 PL-1
CV42 NP2.2μ
RV69 100
QV03 2SC1815Y
RV44 470
RV41 100K
RV43 470
RV47 1K
RV49 1K
QV04 2SC1815Y
QV06 2SA1015Y
TV-V
GJ15 SHORT
LV05 OPEN
GJ16 SHORT
GJ10 OPEN
2.0Vp-p

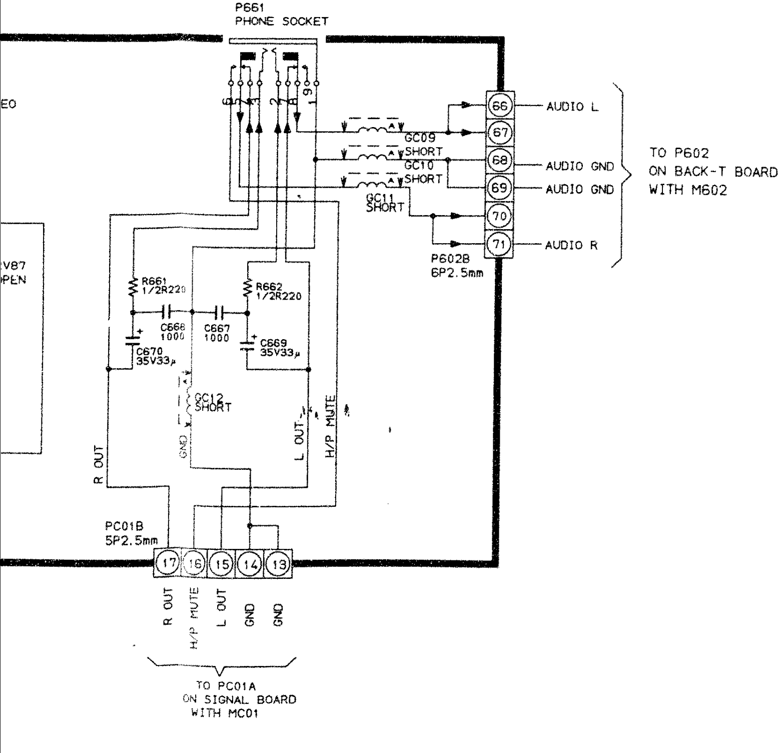
U904B CONT-1 BOARD PB7275Y-2


DH UP
DH DN
VOL UP
VOL DN
MENU
SA01
SA02
SA03
SA04
SA06
RA73 10K
RA72 22K
RA71 68K
RA76 10K
R
L/MONO
V
(FRONT)
VIDEO 3
PV05 2P AV JACK
PV04 1P AV JACK
PV03 S-VIDEO
GC13 SHORT
CV46 3300
CV47 3300
GV80 680
GV81 680
RV91 OPEN
RV90 OPEN
RV85 OPEN
GJ29 OPEN
GJ30 OPEN
LV49 TEM2028K
CV48 1000
LV48 OPEN
RV87 OPEN
P661 PHONE SOCKET
R661 1/2R220
R662 1/2R220
C668 1000
C667 1000
C670 35V33μ
C669 35V33μ
GC12 SHORT
R OUT
L OUT
BB21 8P B-B
BB11 8P B-B
PC01B 5P2.5mm
KEY A
GND(KEY)
KEY B
GND(KEY)
GND
R S2
L S2
Y GND
S S2
GND
C S2
GND
R OUT
H/P MUTE
L OUT
GND
GND
TO PC01A ON SIGNAL BOARD WITH MC01
BB20
BB10
U904A DEF BOARD PB7275Y-1

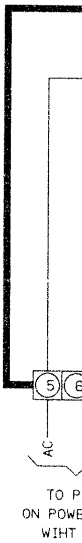

RV47
1K
1K
QV06
2SA1015Y
815Y
TV-R
TV-L
GND
10K
QV07
2SC2878A
QV08
2SC1815Y
RV95
2.2K
GV18
SHORT
RV25
100
QV09
2SC1815Y
RV26
180
CV25
16V470μ
RV27
75
V-AV
GND
R OUT
CS17
16V10μ
RS27
100K
L OUT
CS18
16V10μ
RS28
100K
RS29
22K
QS05
2SC2878A
RS30
22K
QS06
2SC2878A
QS07
RN2004
RS31
10K
CS19
0.47μ
RS32
100K
2.0Vp-p
2.0Vp-p
2.0Vp-p
RV65
1/2R100
CV65
16V100μ
RV66
100
QV12
2SC1815Y
RV67
1/2R82
CV68
16V470μ
RV68
75
V-OUT
GND
GND

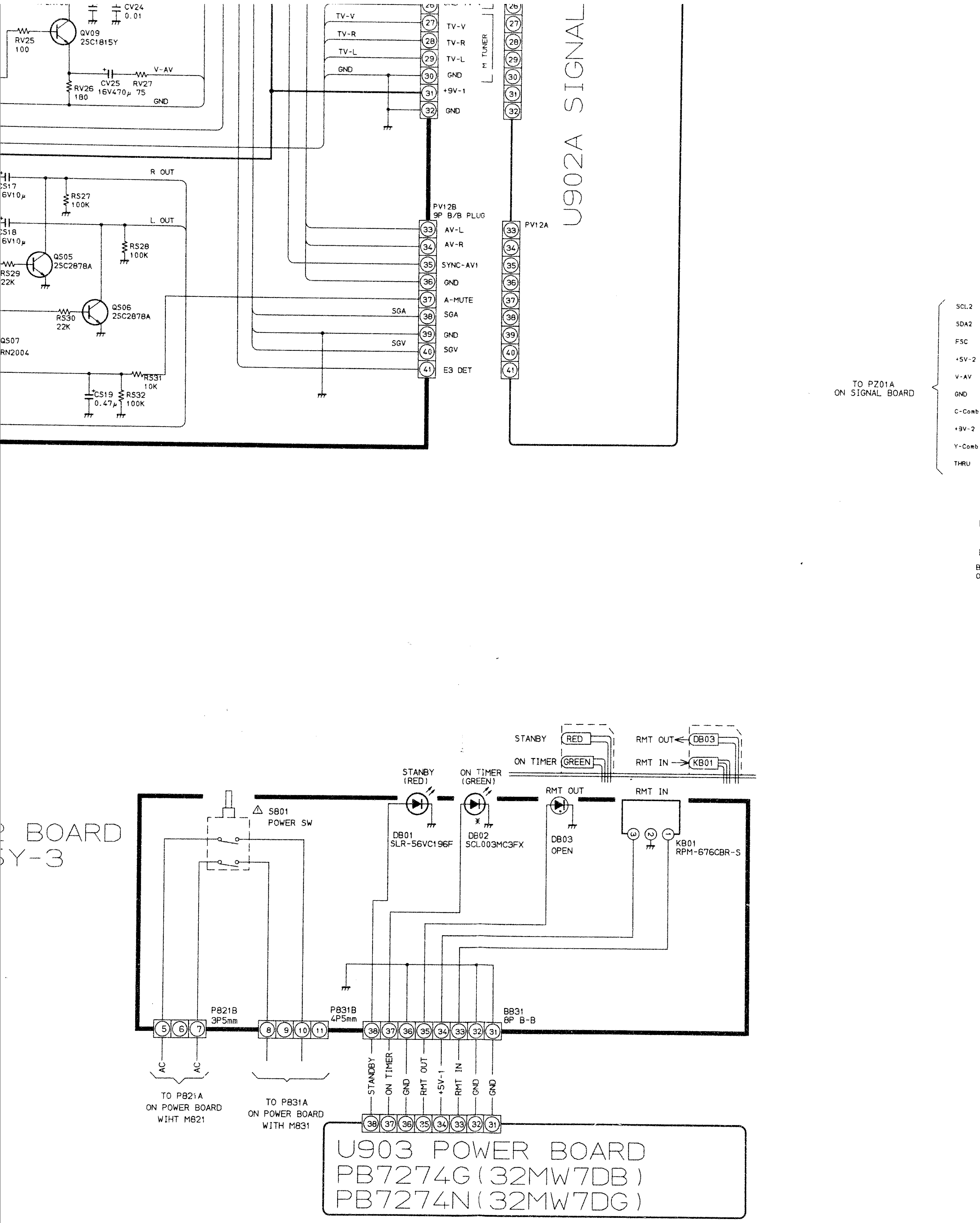
No.1197

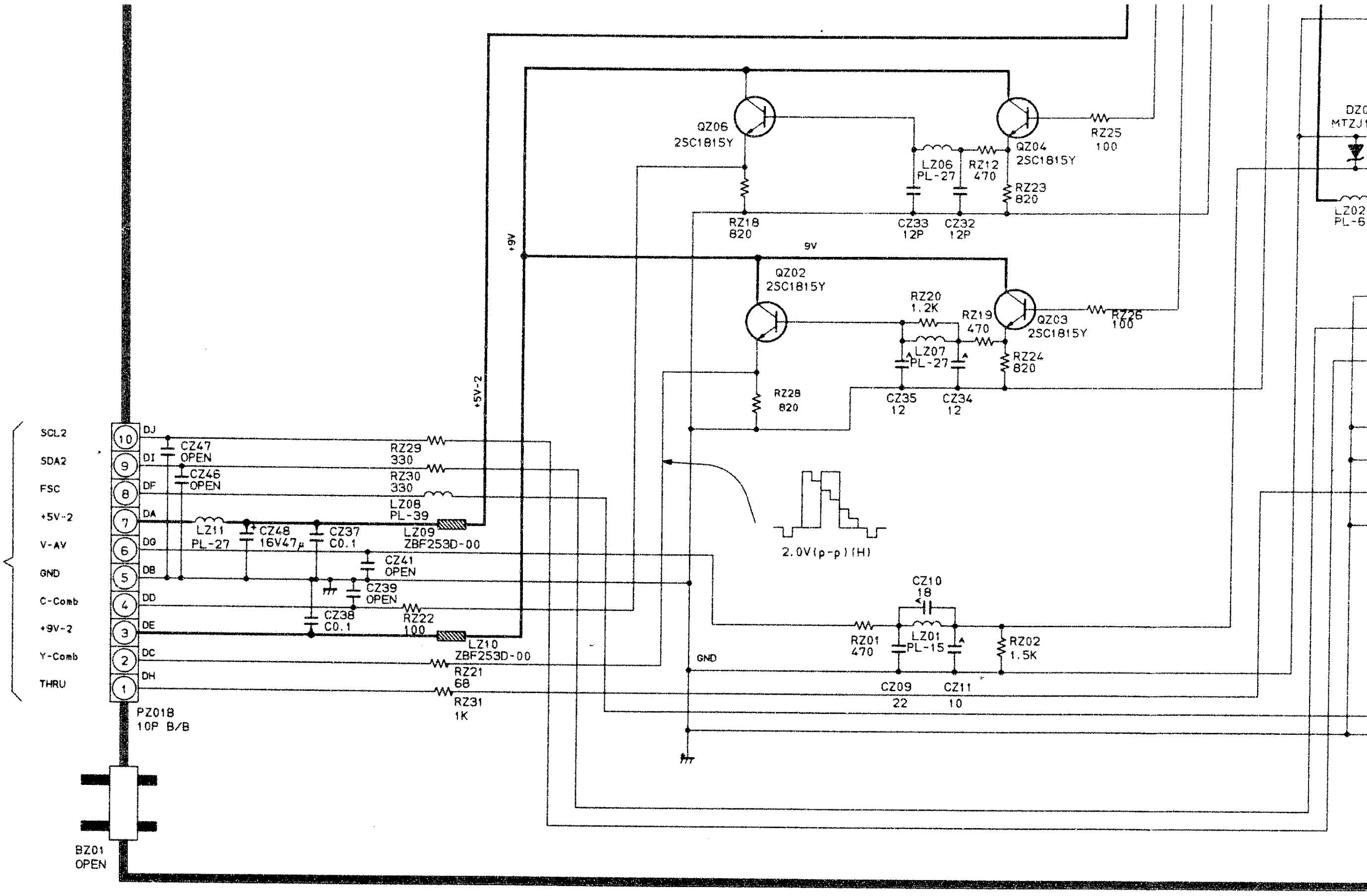
Y-2


P661
PHONE SOCKET
EO
V87
OPEN
GC09
SHORT
GC10
SHORT
GC11
SHORT
66
67
68
69
70
71
AUDIO L
AUDIO GND
AUDIO GND
AUDIO R
TO P602
ON BACK-T BOARD
WITH M602
P602B
6P2.5mm
R661
1/2R220
R662
1/2R220
C666
1000
C667
1000
C670
35V33μ
C669
35V33μ
GC12
SHORT
GND
R OUT
L OUT
H/P MUTE
PC01B
5P2.5mm
17
16
15
14
13
R OUT
H/P MUTE
L OUT
GND
GND
TO PC01A
ON SIGNAL BOARD
WITH MC01

U904C
CONT-2 BOARD
PB7275Y-3

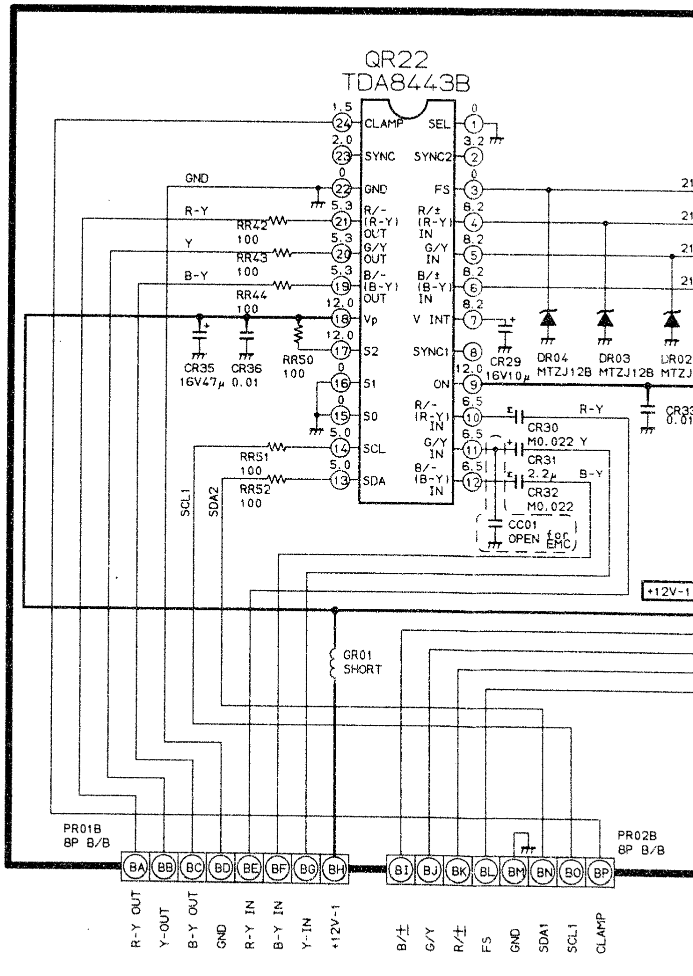

5
AC
TO P
ON POWE
WIHT

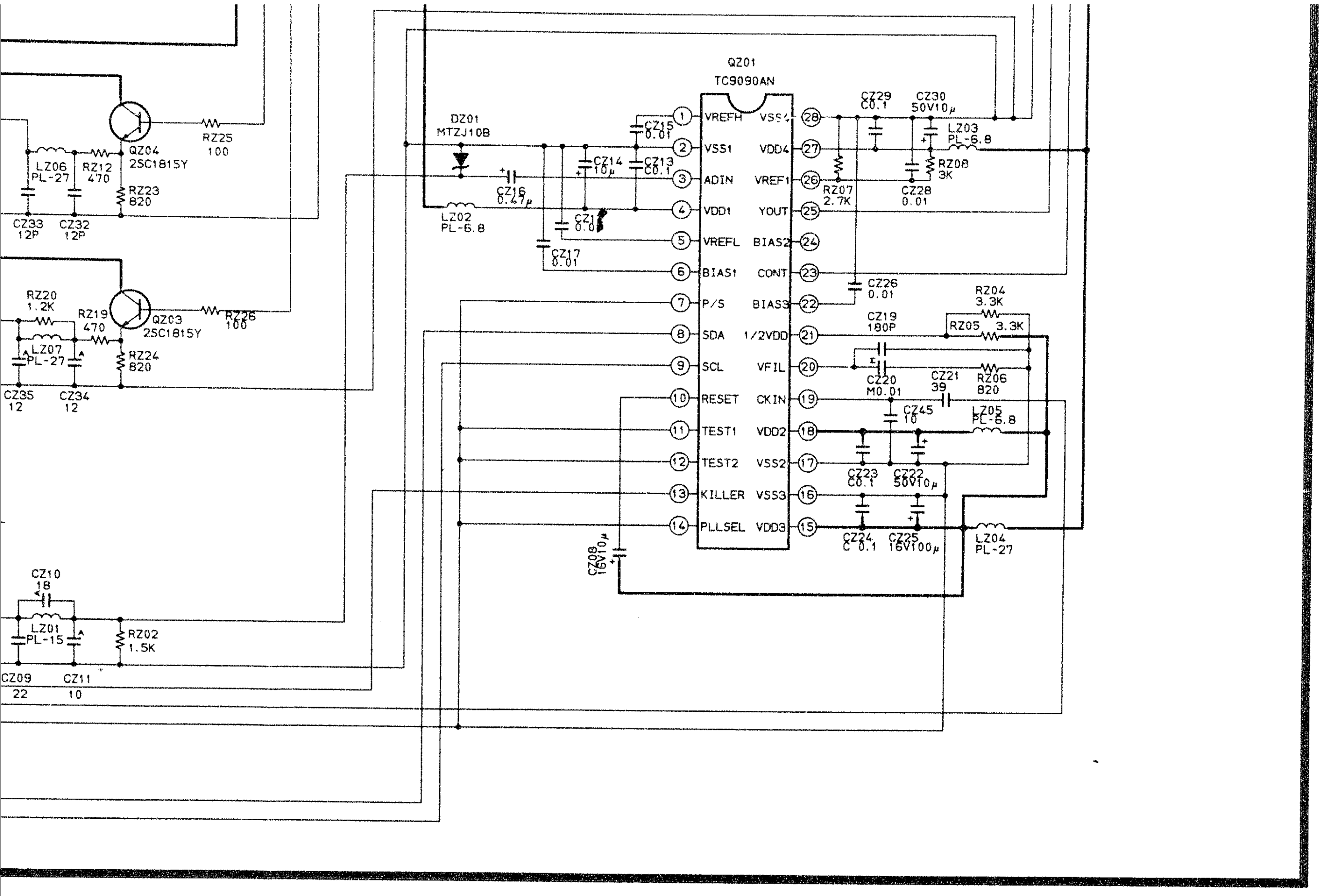

CV24
0.01
RV25
100
QV09
2SC1815Y
RV26
180
CV25
16V470μ
RV27
75
V-AV
GND
TV-V
TV-R
TV-L
GND
26
27 TV-V
28 TV-R
29 TV-L
30 GND
31 +9V-1
32 GND
M TUNER
U902A SIGNAL
R OUT
CS17
6V10μ
RS27
100K
L OUT
CS18
6V10μ
RS28
100K
Q505
2SC2878A
RS29
22K
Q506
2SC2878A
RS30
22K
Q507
RN2004
RS31
10K
CS19
0.47μ
RS32
100K
PV12B
9P B/B PLUG
PV12A
33 AV-L
34 AV-R
35 SYNC-AV1
36 GND
37 A-MUTE
SGA
38 SGA
39 GND
SGV
40 SGV
41 E3 DET
TO PZ01A
ON SIGNAL BOARD
SCL2
SDA2
FSC
+5V-2
V-AV
GND
C-Comb
+9V-2
Y-Comb
THRU
BOARD
Y-3
STANBY
RED
ON TIMER
GREEN
RMT OUT
DB03
RMT IN
KB01
STANBY
(RED)
ON TIMER
(GREEN)
RMT OUT
RMT IN
S801
POWER SW
DB01
SLR-56VC196F
DB02
SCL003MC3FX
DB03
OPEN
KB01
RPM-676CBR-S
P821B
3P5mm
P831B
4P5mm
BB31
8P B-B
5 6 7
8 9 10 11
38 37 36 35 34 33 32 31
AC
AC
TO P821A
ON POWER BOARD
WIHT M821
TO P831A
ON POWER BOARD
WITH M831
STANDBY
ON TIMER
GND
RMT OUT
+5V-1
RMT IN
GND
GND
U903 POWER BOARD
PB7274G(32MW7DB)
PB7274N(32MW7DG)


QZ06
2SC1815Y
QZ04
2SC1815Y
RZ25
100
LZ06
PL-27
RZ12
470
RZ23
820
RZ18
820
CZ33
12P
CZ32
12P
+9V
9V
QZ02
2SC1815Y
RZ20
1.2K
RZ19
470
QZ03
2SC1815Y
RZ26
100
LZ07
PL-27
RZ24
820
RZ28
820
CZ35
12
CZ34
12
+5V-2
DZ0
MTZJ1
LZ02
PL-6
SCL2
SDA2
FSC
+5V-2
V-AV
GND
C-Comb
+9V-2
Y-Comb
THRU
TO PZ01A
ON SIGNAL BOARD
DJ
DI
DF
DA
DG
DB
DD
DE
DC
DH
CZ47
OPEN
CZ46
OPEN
RZ29
330
RZ30
330
LZ08
PL-39
LZ11
PL-27
CZ48
16V47μ
CZ37
C0.1
LZ09
ZBF253D-00
CZ41
OPEN
CZ39
OPEN
CZ38
C0.1
RZ22
100
LZ10
ZBF253D-00
RZ21
68
RZ31
1K
PZ01B
10P B/B
2.0V(p-p)(H)
CZ10
18
RZ01
470
LZ01
PL-15
RZ02
1.5K
GND
CZ09
22
CZ11
10
BZ01
OPEN

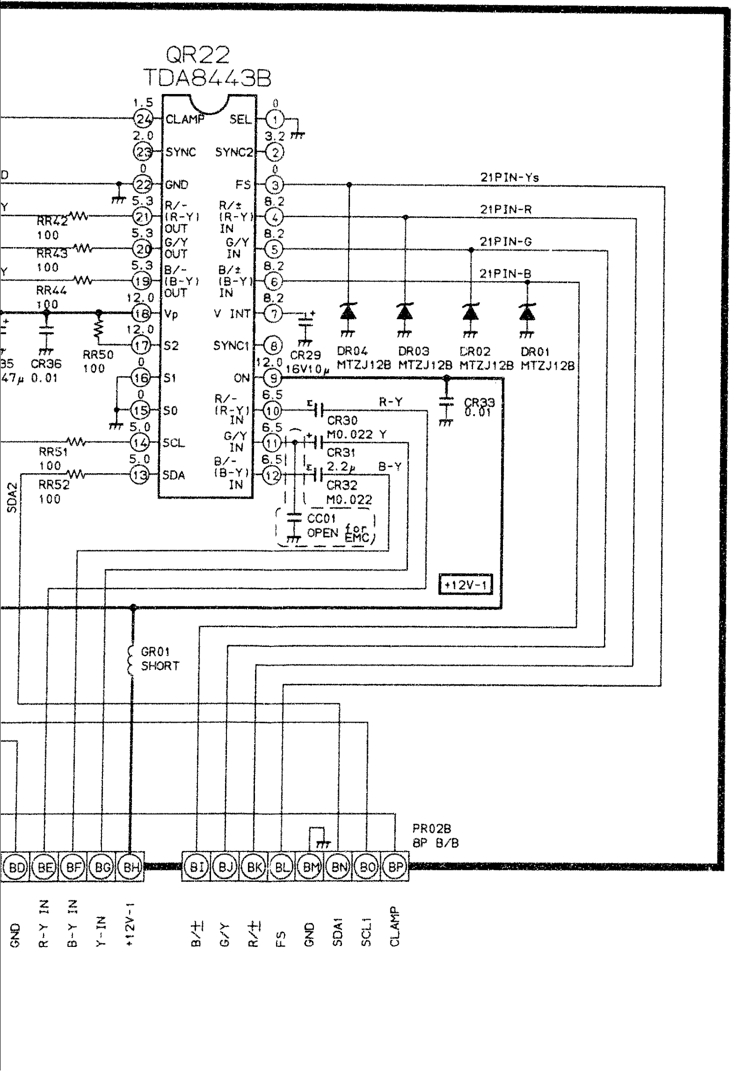
U906C YUV-SW PB7213Z-3(3

PB7213Y-3(3


QR22
TDA8443B
CLAMP
SYNC
GND
R/-(R-Y) OUT
G/Y OUT
B/-(B-Y) OUT
Vp
S2
S1
S0
SCL
SDA
SEL
SYNC2
FS
R/±(R-Y) IN
G/Y IN
B/±(B-Y) IN
V INT
SYNC1
ON
R/-(R-Y) IN
G/Y IN
B/-(B-Y) IN
1.5
2.0
0
5.3
5.3
5.3
12.0
12.0
0
0
5.0
5.0
3.2
0
8.2
8.2
8.2
8.2
12.0
6.5
6.5
6.5
GND
R-Y
Y
B-Y
RR42
100
RR43
100
RR44
100
CR35
16V47μ
CR36
0.01
RR50
100
RR51
100
RR52
100
SCL1
SDA2
CR29
16V10μ
DR04
MTZJ12B
DR03
MTZJ12B
DR02
MTZJ
CR33
0.01
CR30
M0.022
CR31
2.2μ
CR32
M0.022
CC01
OPEN for EMC
R-Y
Y
B-Y
+12V-1
GR01
SHORT
PR01B
8P B/B
PR02B
8P B/B
BA
BB
BC
BD
BE
BF
BG
BH
BI
BJ
BK
BL
BM
BN
BO
BP
R-Y OUT
Y-OUT
B-Y OUT
GND
R-Y IN
B-Y IN
Y-IN
+12V-1
B/±
G/Y
R/±
FS
GND
SDA1
SCL1
CLAMP

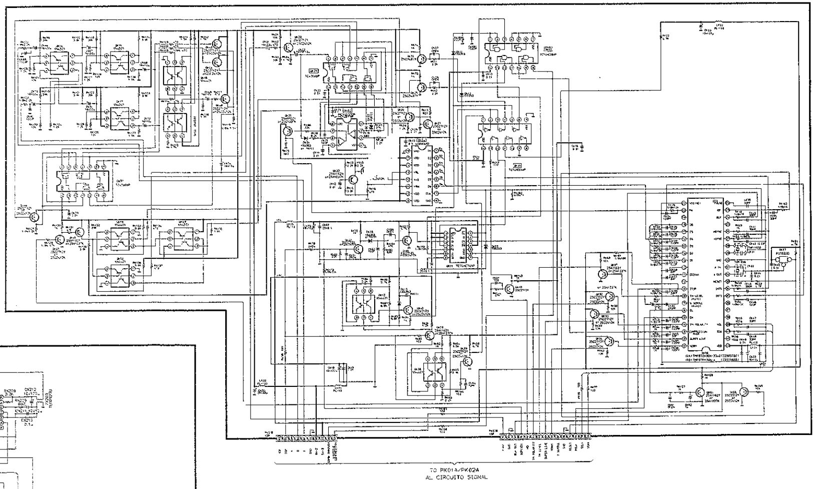

QZ01
TC9090AN
VREFH
VSS1
ADIN
VDD1
VREFL
BIAS1
P/S
SDA
SCL
RESET
TEST1
TEST2
KILLER
PLLSEL
VSS4
VDD4
VREF1
YOUT
BIAS2
CONT
BIAS3
1/2VDD
VFIL
CKIN
VDD2
VSS2
VSS3
VDD3
DZ01
MTZJ10B
LZ02
PL-6.8
CZ15
0.01
CZ14
10μ
CZ13
C0.1
CZ16
0.47μ
CZ17
0.01
CZ29
C0.1
CZ30
50V10μ
LZ03
PL-6.8
RZ08
3K
RZ07
2.7K
CZ28
0.01
CZ26
0.01
RZ04
3.3K
RZ05
3.3K
CZ19
180P
CZ20
M0.01
CZ21
39
RZ06
820
CZ45
10
LZ05
PL-6.8
CZ23
C0.1
CZ22
50V10μ
CZ24
C 0.1
CZ25
16V100μ
LZ04
PL-27
CZ08
16V10μ
QZ04
2SC1815Y
RZ25
100
LZ06
PL-27
RZ12
470
RZ23
820
CZ33
12P
CZ32
12P
RZ20
1.2K
RZ19
470
QZ03
2SC1815Y
RZ26
100
LZ07
PL-27
RZ24
820
CZ35
12
CZ34
12
CZ10
18
LZ01
PL-15
RZ02
1.5K
CZ09
22
CZ11
10

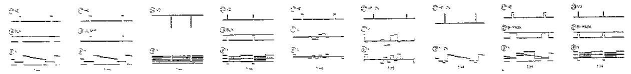
UV-SW PB7213Z-3(32MW7DB)
PB7213Y-3(32MW7DG)


QR22
TDA8443B
CLAMP
SYNC
GND
R/-(R-Y) OUT
G/Y OUT
B/-(B-Y) OUT
Vp
S2
S1
S0
SCL
SDA
SEL
SYNC2
FS
R/± (R-Y) IN
G/Y IN
B/± (B-Y) IN
V INT
SYNC1
ON
R/-(R-Y) IN
G/Y IN
B/-(B-Y) IN
1.5
2.0
0
5.3
5.3
5.3
12.0
12.0
0
0
5.0
5.0
0
3.2
0
8.2
8.2
8.2
8.2
12.0
6.5
6.5
6.5
RR42
100
RR43
100
RR44
100
RR50
100
CR36
0.01
RR51
100
RR52
100
SDA2
21PIN-Ys
21PIN-R
21PIN-G
21PIN-B
DR04
MTZJ12B
DR03
MTZJ12B
DR02
MTZJ12B
DR01
MTZJ12B
CR29
16V10μ
CR33
0.01
R-Y
CR30
M0.022
Y
CR31
2.2μ
B-Y
CR32
M0.022
CC01
OPEN for EMC
+12V-1
GR01
SHORT
PR02B
8P B/B
BD
BE
BF
BG
BH
BI
BJ
BK
BL
BM
BN
BO
BP
GND
R-Y IN
B-Y IN
Y-IN
+12V-1
B/±
G/Y
R/±
FS
GND
SDA1
SCL1
CLAMP

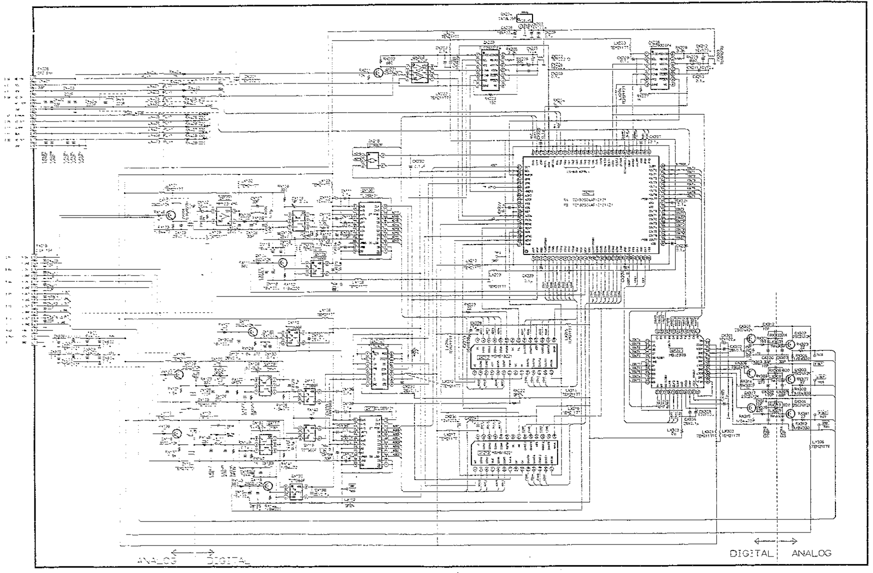
SCHEMATIC DIAGRAM **MODEL : 32MW7DB (6/6)**
32MW7DG

UG01: AUTOLIVE BOARD PB6704

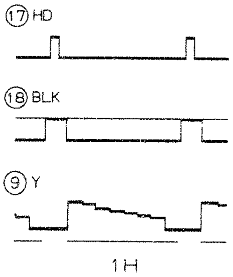

TO PK01A/PK02A
AL CIRCUITO SIGNAL

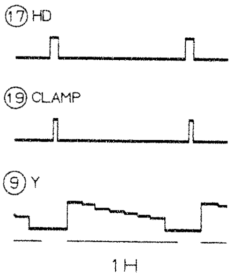


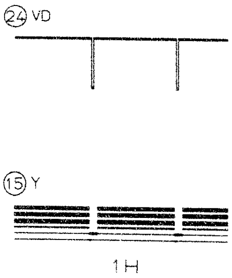
UG03 UP CONVERTER BOARD PB7366X

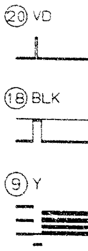

DIGITAL
ANALOG
ANALOG
DIGITAL

SCHEMATIC DIAGRAM MODEL : 32MW7DB (6/6)
32MW7DG

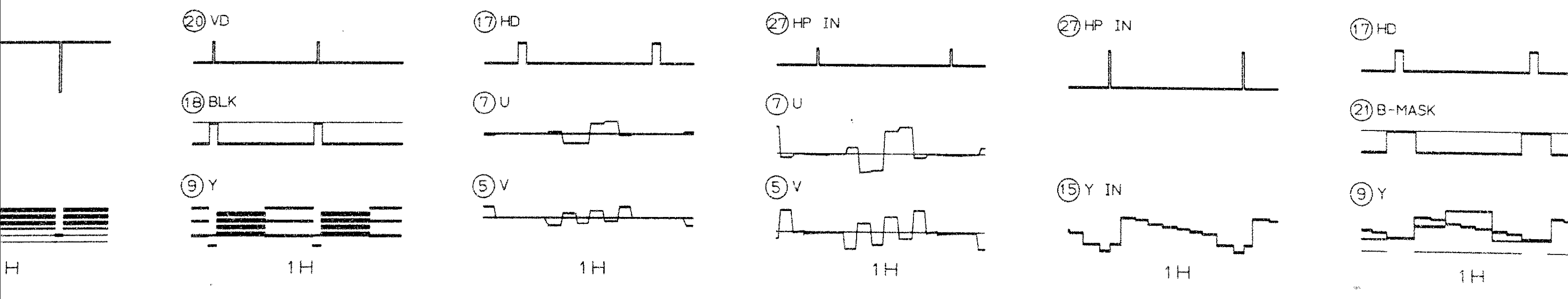

⑰ HD
⑱ BLK
⑨ Y
1 H


⑰ HD
⑲ CLAMP
⑨ Y
1 H

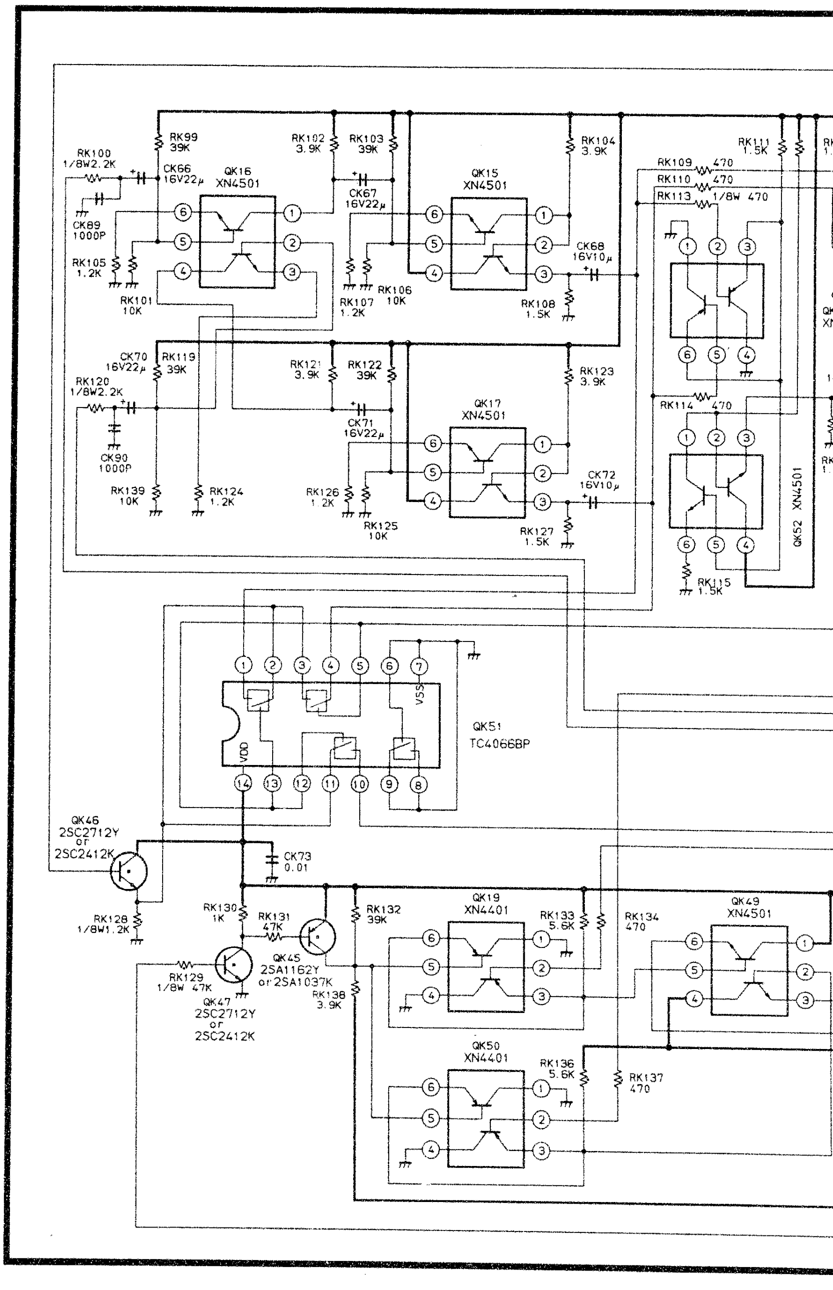


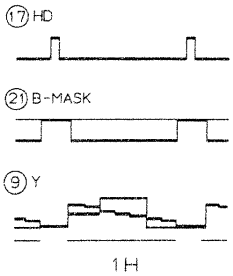


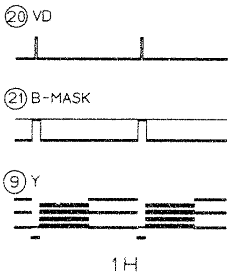
(6/6)


H
⑳ VD
⑱ BLK
⑨ Y
1H
⑰ HD
⑦ U
⑤ V
1H
㉗ HP IN
⑦ U
⑤ V
1H
㉗ HP IN
⑮ Y IN
1H
⑰ HD
㉑ B-MASK
⑨ Y
1H

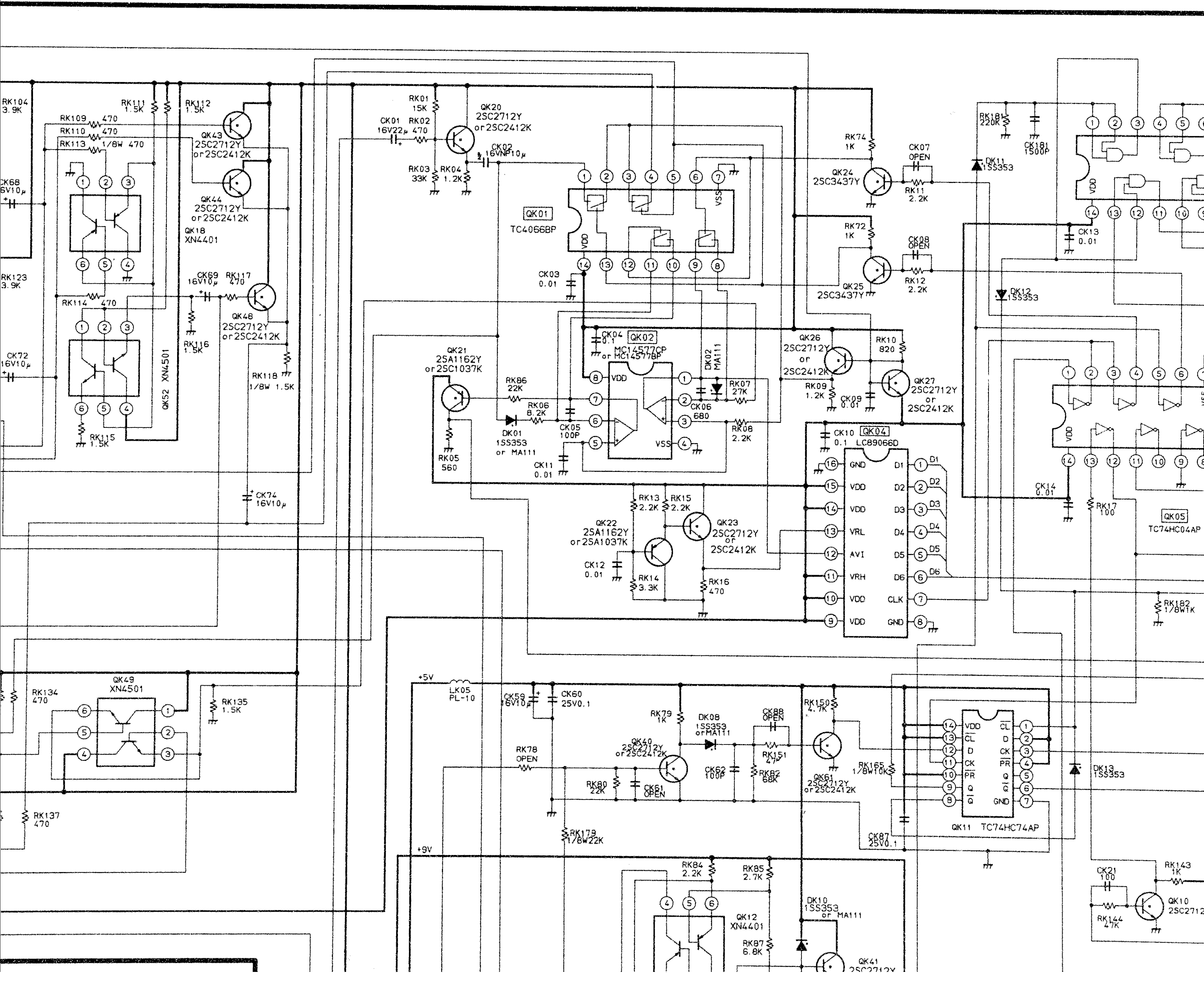
UG01 AUTOLIVE BOARD PB6704

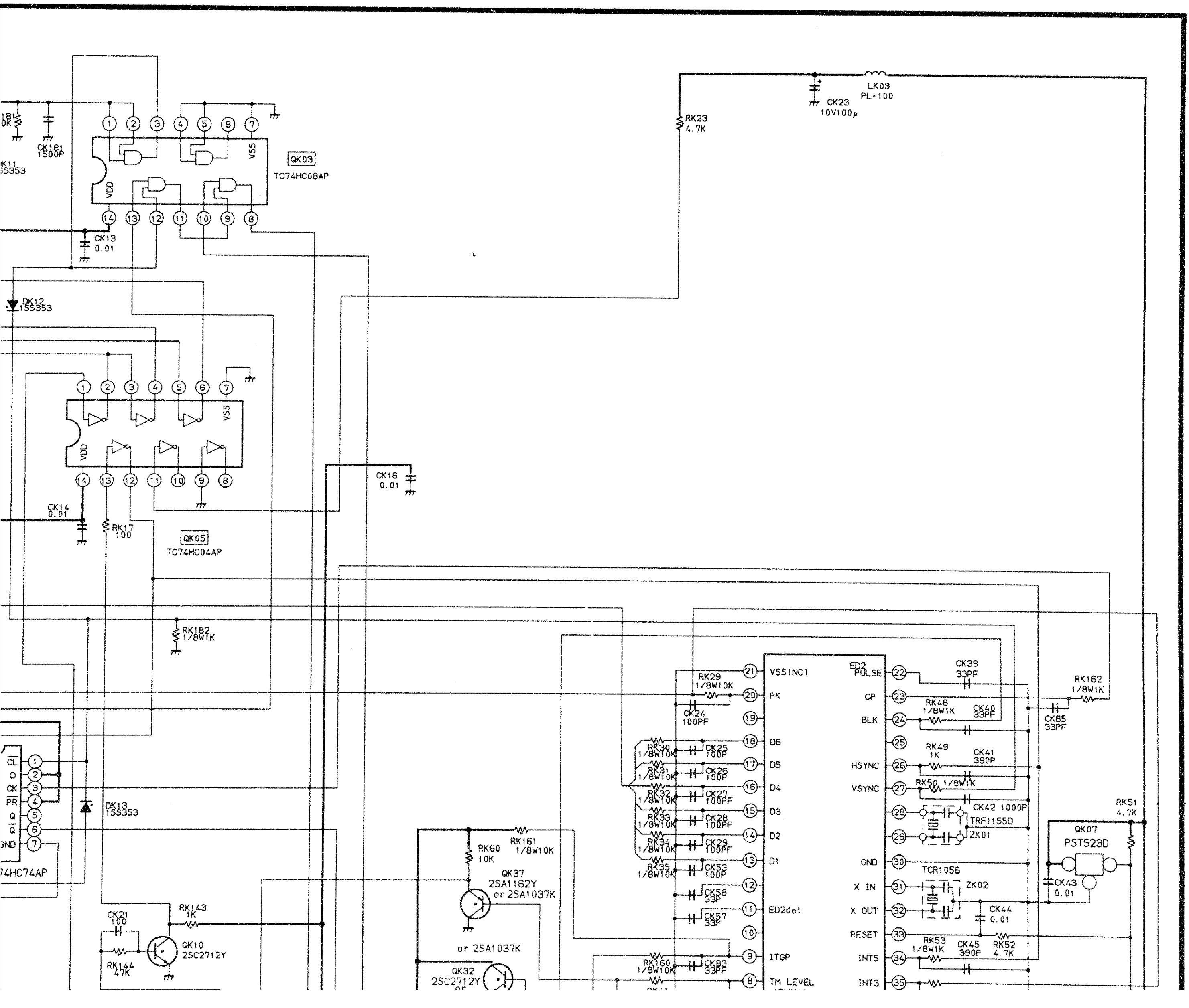

RK100
1/8W2.2K
CK66
16V22μ
RK99
39K
QK16
XN4501
CK89
1000P
RK105
1.2K
RK101
10K
RK102
3.9K
RK103
39K
CK67
16V22μ
QK15
XN4501
RK107
1.2K
RK106
10K
RK104
3.9K
CK68
16V10μ
RK108
1.5K
RK111
1.5K
RK109 470
RK110 470
RK113 1/8W 470
CK70
16V22μ
RK119
39K
RK120
1/8W2.2K
CK90
1000P
RK139
10K
RK124
1.2K
RK121
3.9K
RK122
39K
CK71
16V22μ
QK17
XN4501
RK126
1.2K
RK125
10K
RK123
3.9K
CK72
16V10μ
RK127
1.5K
RK114 470
QK52 XN4501
RK115
1.5K
QK51
TC4066BP
VDD
VSS
QK46
2SC2712Y
or
2SC2412K
RK128
1/8W1.2K
CK73
0.01
RK130
1K
RK131
47K
RK129
1/8W 47K
QK47
2SC2712Y
or
2SC2412K
QK45
2SA1162Y
or 2SA1037K
RK132
39K
RK138
3.9K
QK19
XN4401
RK133
5.6K
RK134
470
QK49
XN4501
QK50
XN4401
RK136
5.6K
RK137
470


⑰ HD
㉑ B-MASK
⑨ Y
1H

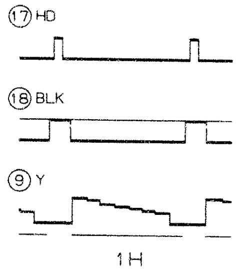

⑳ VD
㉑ B-MASK
⑨ Y
1H

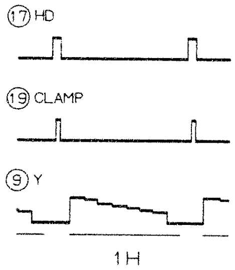
PB6704

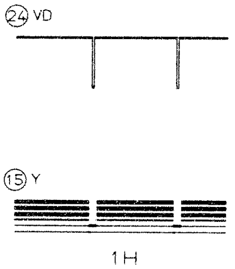

RK104 3.9K
RK111 1.5K
RK112 1.5K
RK109 470
RK110 470
RK113 1/8W 470
QK43 2SC2712Y or 2SC2412K
QK44 2SC2712Y or 2SC2412K
QK18 XN4401
CK68 16V10μ
RK123 3.9K
RK114 470
CK69 16V10μ
RK117 470
QK48 2SC2712Y or 2SC2412K
RK116 1.5K
QK52 XN4501
CK72 16V10μ
RK115 1.5K
RK118 1/8W 1.5K
CK74 16V10μ
RK01 15K
RK02 470
QK20 2SC2712Y or 2SC2412K
CK01 16V22μ
RK03 33K
RK04 1.2K
CK02 16VNP10μ
QK01 TC4066BP
VDD
VSS
CK03 0.01
CK04 0.1
QK02 MC14577CP or MC14577BP
DK02 MA111
RK07 27K
CK06 680
RK08 2.2K
QK21 2SA1162Y or 2SC1037K
RK86 22K
RK06 8.2K
DK01 1SS353 or MA111
CK05 100P
CK11 0.01
RK05 560
RK74 1K
CK07 OPEN
RK11 2.2K
QK24 2SC3437Y
RK72 1K
CK08 OPEN
RK12 2.2K
QK25 2SC3437Y
QK26 2SC2712Y or 2SC2412K
RK10 820
RK09 1.2K
CK09 0.01
QK27 2SC2712Y or 2SC2412K
CK10 0.1
QK04 LC89066D
GND VDD VDD VRL AVI VRH VDD VDD
D1 D2 D3 D4 D5 D6 CLK GND
RK13 2.2K
RK15 2.2K
QK22 2SA1162Y or 2SA1037K
QK23 2SC2712Y or 2SC2412K
CK12 0.01
RK14 3.3K
RK16 470
RK181 220K
CK181 1500P
DK11 1SS353
DK12 1SS353
CK13 0.01
CK14 0.01
RK17 100
QK05 TC74HC04AP
RK182 1/8W1K
QK49 XN4501
RK134 470
RK135 1.5K
RK137 470
+5V
LK05 PL-10
CK59 16V10μ
CK60 25V0.1
RK79 1K
DK08 1SS353 or MA111
CK88 OPEN
RK151 47K
RK150 4.7K
QK40 2SC2712Y or 2SC2412K
RK78 OPEN
RK80 22K
CK61 OPEN
CK62 100P
RK82 68K
QK61 2SC2712Y or 2SC2412K
RK165 1/8W10K
QK11 TC74HC74AP
VDD CL D CK PR Q Q GND
CK87 25V0.1
DK13 1SS353
RK179 1/8W22K
+9V
RK84 2.2K
RK85 2.7K
QK12 XN4401
RK87 6.8K
DK10 1SS353 or MA111
QK41 2SC2712Y
CK21 100
RK143 1K
RK144 47K
QK10 2SC2712

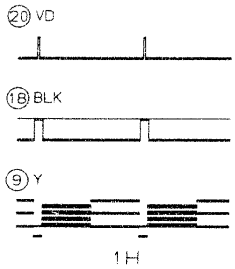


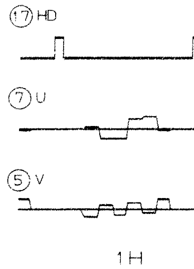
LK03
PL-100
CK23
10V100μ
RK23
4.7K
CK181
1500P
QK03
TC74HC08AP
VDD
VSS
CK13
0.01
DK12
1SS353
QK05
TC74HC04AP
CK14
0.01
RK17
100
CK16
0.01
RK182
1/8W1K
CL
D
CK
PR
Q
Q̄
GND
74HC74AP
DK13
1SS353
CK21
100
RK143
1K
RK144
47K
QK10
2SC2712Y
RK60
10K
RK161
1/8W10K
QK37
2SA1162Y
or 2SA1037K
or 2SA1037K
QK32
2SC2712Y
ED2
RK29
1/8W10K
CK24
100PF
VSS(NC)
PK
D6
D5
D4
D3
D2
D1
ED2det
ITGP
TM LEVEL
RK30
1/8W10K
CK25
100P
RK31
1/8W10K
CK26
100P
RK32
1/8W10K
CK27
100PF
RK33
1/8W10K
CK28
100PF
RK34
1/8W10K
CK29
100PF
RK35
1/8W10K
CK53
100P
CK58
33P
CK57
33P
RK160
1/8W10K
CK83
33PF
PULSE
CP
BLK
HSYNC
VSYNC
GND
X IN
X OUT
RESET
INT5
INT3
CK39
33PF
RK48
1/8W1K
CK40
33PF
RK49
1K
CK41
390P
RK50 1/8W1K
CK42 1000P
TRF1155D
ZK01
TCR1056
ZK02
CK44
0.01
RK53
1/8W1K
CK45
390P
RK52
4.7K
RK162
1/8W1K
CK85
33PF
RK51
4.7K
QK07
PST523D
CK43
0.01



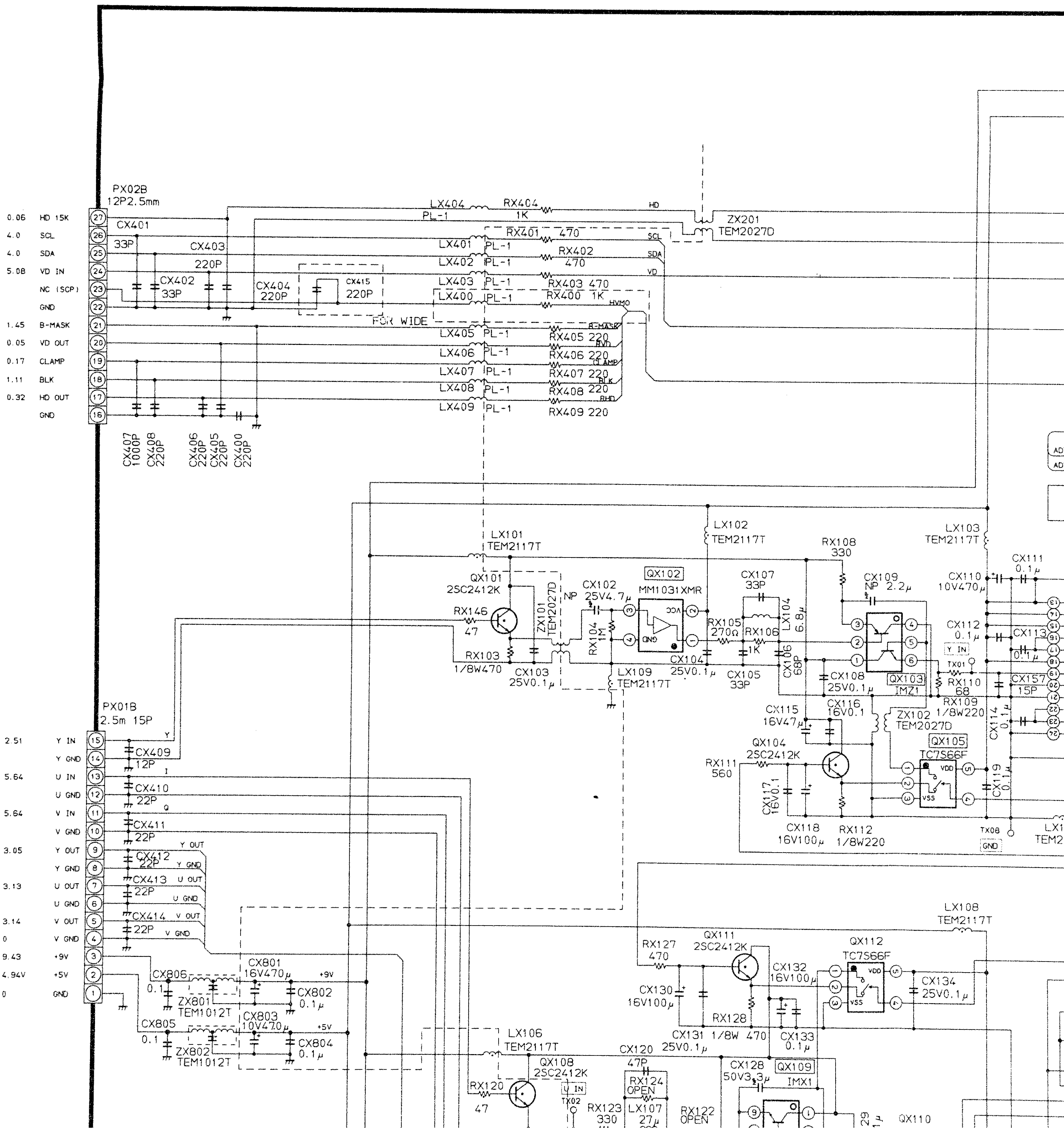


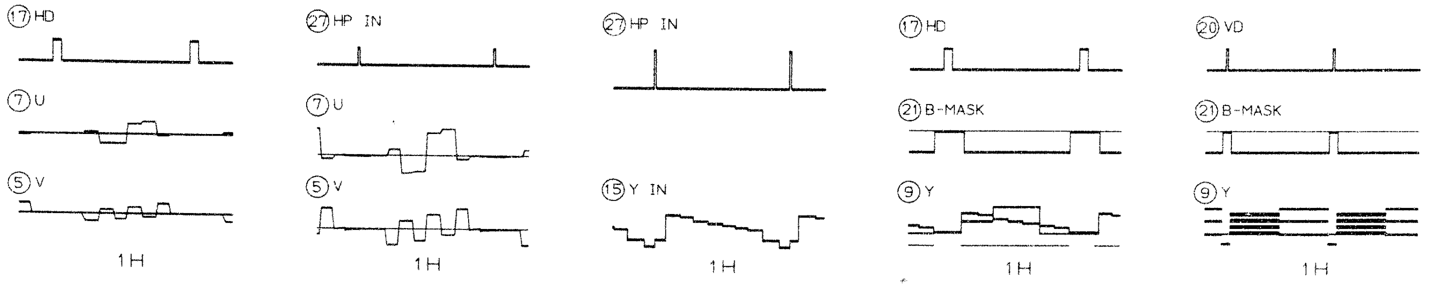


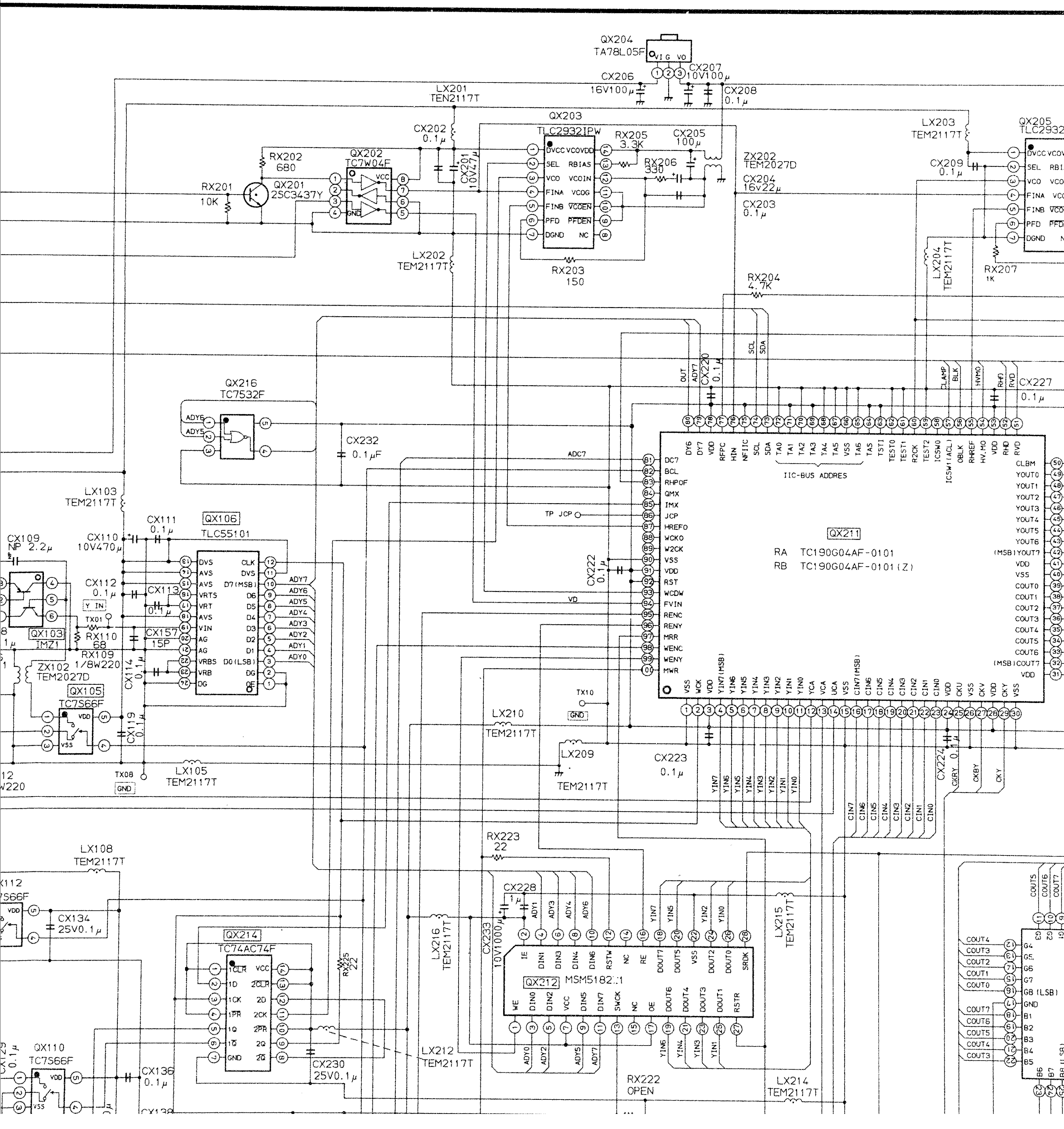


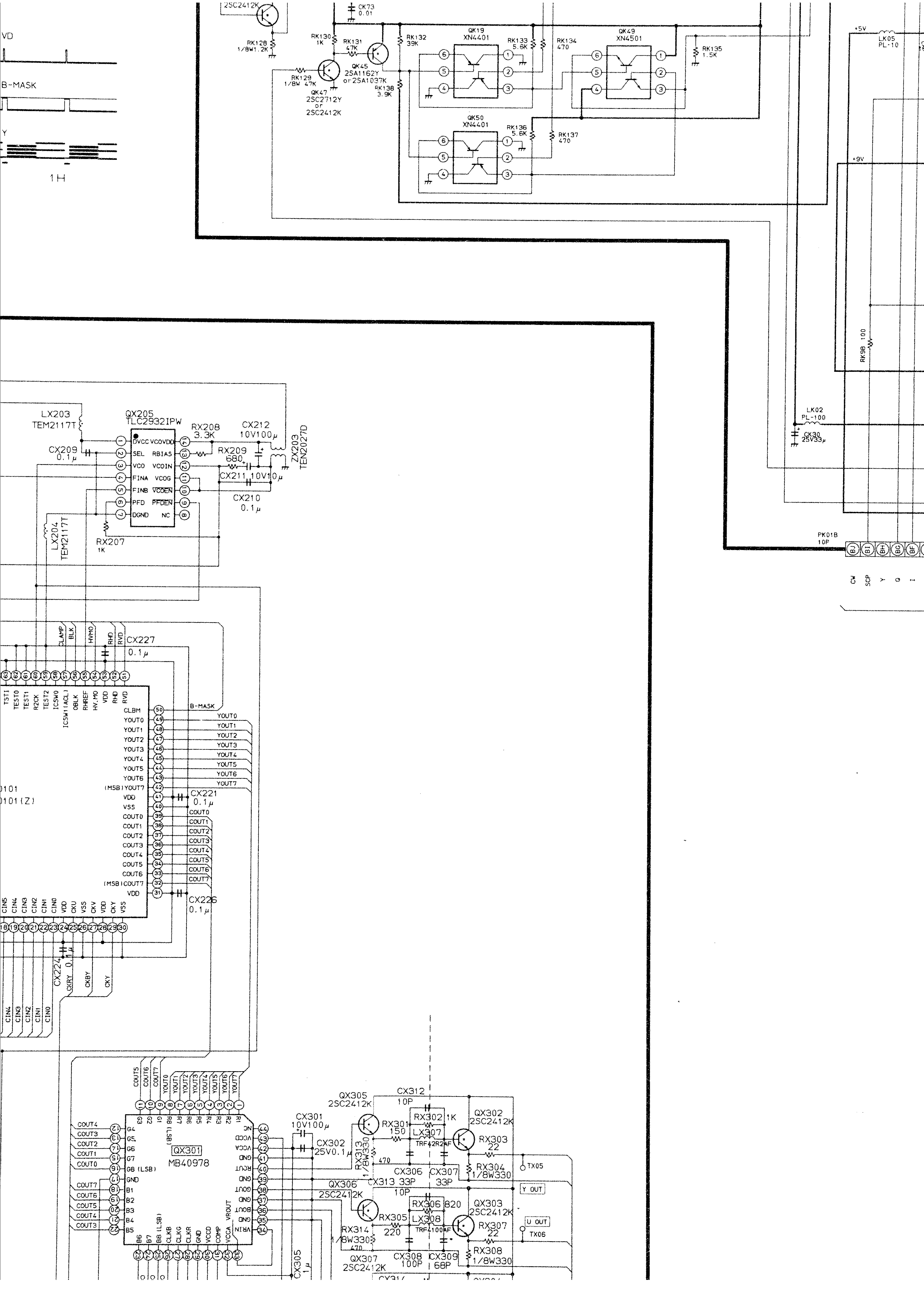


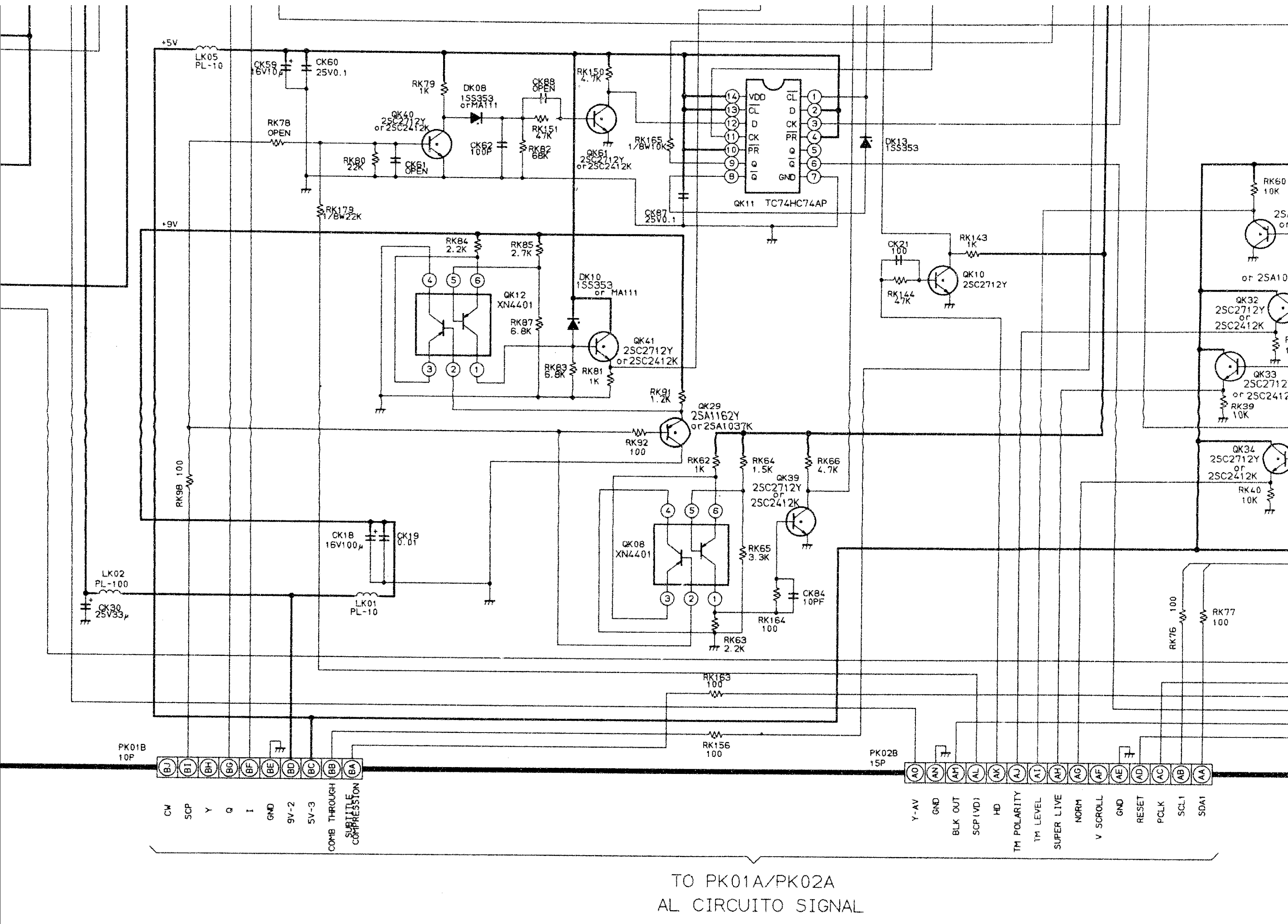
U908 UP CONVERTER BOARD PB7366X

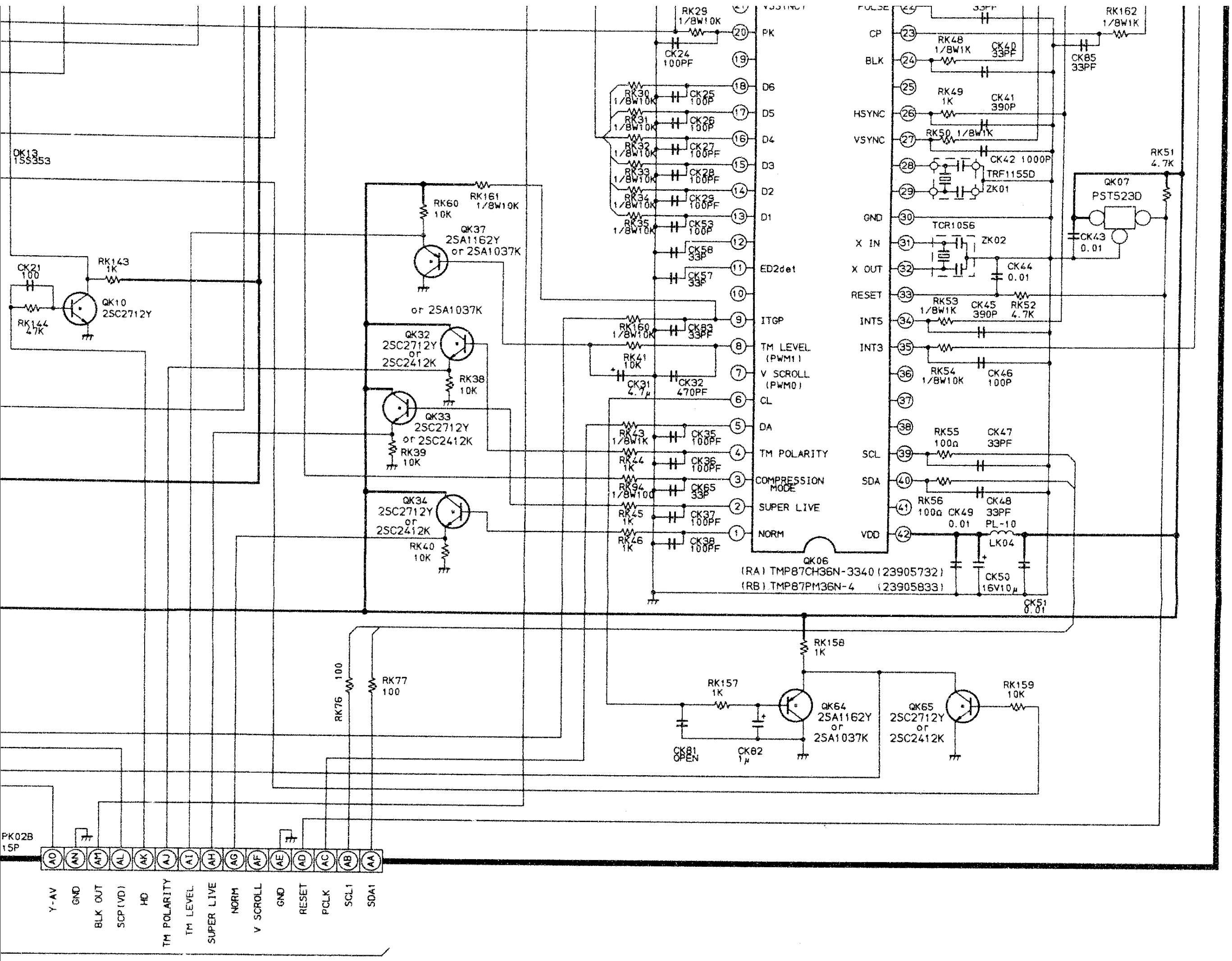

PX02B
12P2.5mm
0.06 HD 15K ㉗
4.0 SCL ㉖
4.0 SDA ㉕
5.08 VD IN ㉔
NC (SCP) ㉓
GND ㉒
1.45 B-MASK ㉑
0.05 VD OUT ⑳
0.17 CLAMP ⑲
1.11 BLK ⑱
0.32 HD OUT ⑰
GND ⑯
CX401 33P
CX402 33P
CX403 220P
CX404 220P
CX415 220P
FOR WIDE
CX407 1000P
CX408 220P
CX406 220P
CX405 220P
CX400 220P
LX404 PL-1
RX404 1K
LX401 PL-1
RX401 470
LX402 PL-1
RX402 470
LX403 PL-1
RX403 470
LX400 PL-1
RX400 1K
LX405 PL-1
RX405 220
LX406 PL-1
RX406 220
LX407 PL-1
RX407 220
LX408 PL-1
RX408 220
LX409 PL-1
RX409 220
HD
SCL
SDA
VD
HVMO
B-MASK
BVD
CLAMP
BLK
BHD
ZX201 TEM2027D
PX01B
2.5m 15P
2.51 Y IN ⑮
Y GND ⑭
5.64 U IN ⑬
U GND ⑫
5.64 V IN ⑪
V GND ⑩
3.05 Y OUT ⑨
Y GND ⑧
3.13 U OUT ⑦
U GND ⑥
3.14 V OUT ⑤
0 V GND ④
9.43 +9V ③
4.94V +5V ②
0 GND ①
CX409 12P
CX410 22P
CX411 22P
CX412 22P
CX413 22P
CX414 22P
Y
I
Q
Y OUT
Y GND
U OUT
U GND
V OUT
V GND
CX806 0.1
ZX801 TEM1012T
CX801 16V470μ
CX802 0.1μ
+9V
CX805 0.1
ZX802 TEM1012T
CX803 10V470μ
CX804 0.1μ
+5V
LX101 TEM2117T
QX101 2SC2412K
RX146 47
ZX101 TEM2027D
NP
RX103 1/8W470
CX103 25V0.1μ
CX102 25V4.7μ
RX104 1M
QX102
MM1031XMR
VCC
GND
LX109 TEM2117T
CX104 25V0.1μ
LX102 TEM2117T
CX107 33P
RX105 270Ω
RX106 1K
LX104 6.8μ
CX106 68P
CX105 33P
RX108 330
CX109 NP 2.2μ
CX108 25V0.1μ
QX103 IMZ1
LX103 TEM2117T
CX110 10V470μ
CX111 0.1μ
CX112 0.1μ
CX113 0.1μ
Y IN
TX01
RX110 68
RX109 1/8W220
CX157 15P
CX114 0.1μ
CX115 16V47μ
CX116 16V0.1
ZX102 TEM2027D
QX104 2SC2412K
RX111 560
QX105 TC7S66F
VDD
VSS
CX117 16V0.1
CX118 16V100μ
RX112 1/8W220
CX119 0.1μ
TX08 GND
LX108 TEM2117T
RX127 470
QX111 2SC2412K
CX130 16V100μ
CX132 16V100μ
RX128
CX131 1/8W 470
CX133 0.1μ
QX112 TC7S66F
CX134 25V0.1μ
LX106 TEM2117T
QX108 2SC2412K
RX120 47
U IN
TX02
CX120 47P
RX124 OPEN
RX123 330
LX107 27μ
RX122 OPEN
CX128 50V3.3μ
QX109 IMX1
QX110

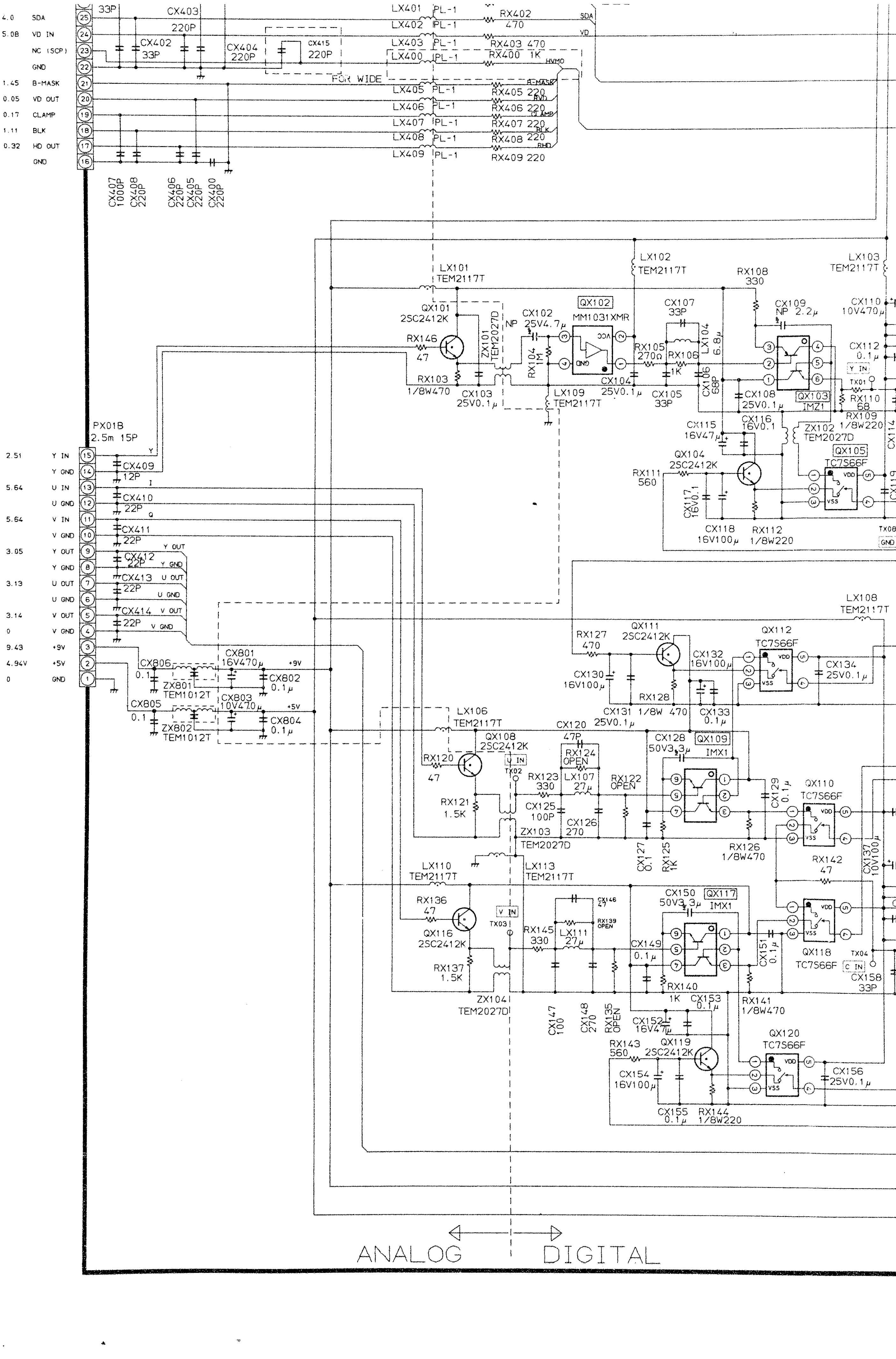

⑰HD
⑦U
⑤V
1H
㉗HP IN
⑦U
⑤V
1H
㉗HP IN
⑮Y IN
1H
⑰HD
㉑B-MASK
⑨Y
1H
⑳VD
㉑B-MASK
⑨Y
1H

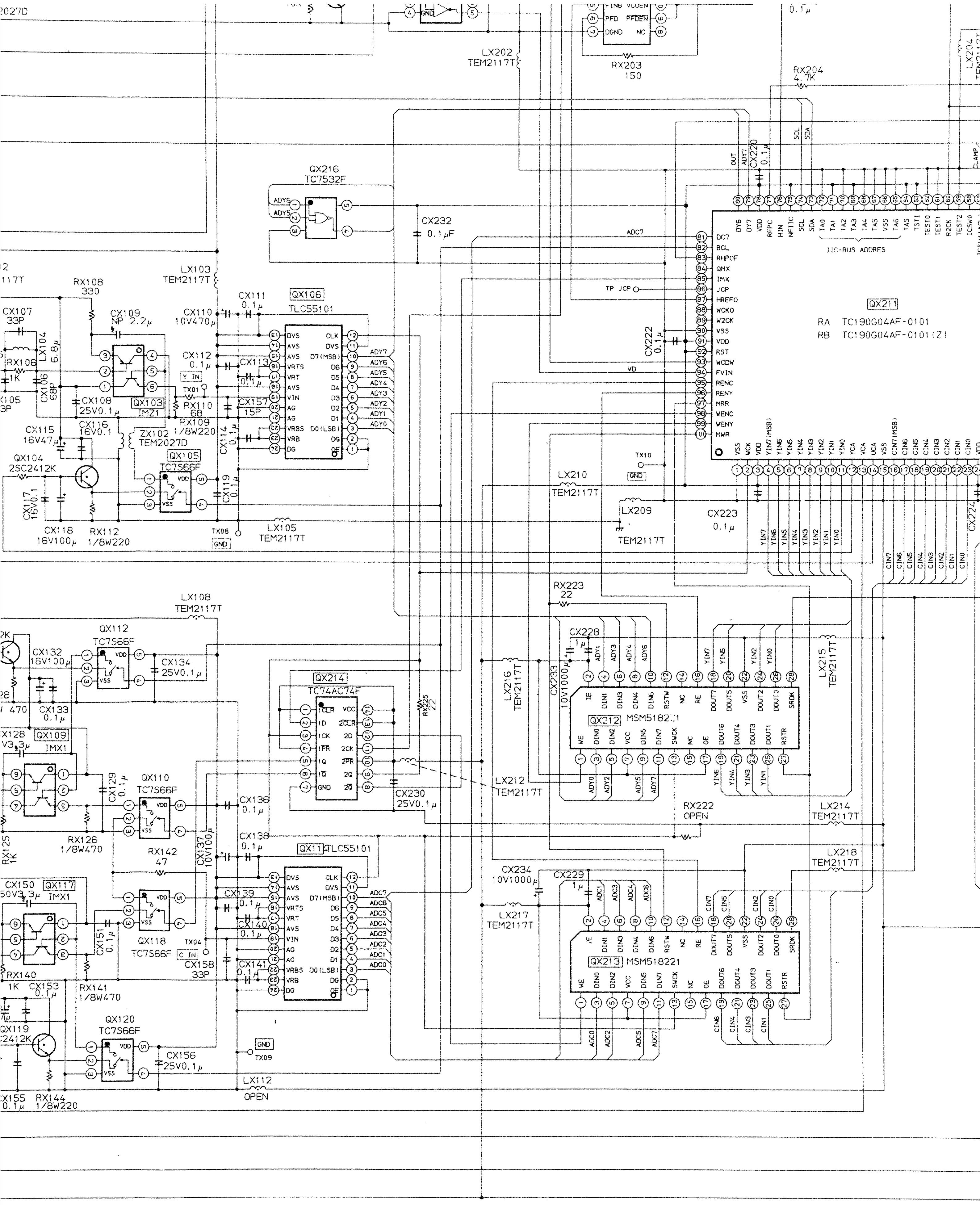

QX204
TA78L05F
VI G VO
CX206
16V100μ
CX207
10V100μ
CX208
0.1μ
LX201
TEN2117T
QX203
TLC2932IPW
CX202
0.1μ
CX201
10V47μ
RX205
3.3K
CX205
100μ
RX206
330
ZX202
TEM2027D
CX204
16v22μ
CX203
0.1μ
RX202
680
QX202
TC7W04F
RX201
10K
QX201
2SC3437Y
DVCC VCOVDD
SEL RBIAS
VCO VCOIN
FINA VCOG
FINB VCOEN
PFD PFDEN
DGND NC
LX202
TEM2117T
RX203
150
LX203
TEM2117T
QX205
TLC2932
CX209
0.1μ
LX204
TEM2117T
RX207
1K
RX204
4.7K
SCL
SDA
OUT
ADY7
CX220
0.1μ
CLAMP
BLK
HVMO
RHD
RVD
CX227
0.1μ
QX216
TC7532F
ADY6
ADY5
CX232
0.1μF
ADC7
DY6 DY7 VDD RFPC HIN NFIIC SCL SDA TA0 TA1 TA2 TA3 TA4 TA5 VSS TA6 TA5 TST1 TEST0 TEST1 R2CK TEST2 ICSW0 ICSW1(ACL) OBLK RHREF HV.MO VDD RHD RVD
IIC-BUS ADDRES
DC7
BCL
RHPOF
QMX
IMX
JCP
HREFO
WCKO
W2CK
VSS
VDD
RST
WCDW
FVIN
RENC
RENY
MRR
WENC
WENY
MWR
TP JCP
CLBM
YOUT0
YOUT1
YOUT2
YOUT3
YOUT4
YOUT5
YOUT6
(MSB)YOUT7
VDD
VSS
COUT0
COUT1
COUT2
COUT3
COUT4
COUT5
COUT6
(MSB)COUT7
VDD
QX211
RA TC190G04AF-0101
RB TC190G04AF-0101(Z)
VSS WCK VDD YIN7(MSB) YIN6 YIN5 YIN4 YIN3 YIN2 YIN1 YIN0 YCA UCA VSS CIN7(MSB) CIN6 CIN5 CIN4 CIN3 CIN2 CIN1 CIN0 VDD CKU VSS CKV VDD CKY VSS
LX103
TEM2117T
CX111
0.1μ
QX106
TLC55101
CX109
NP 2.2μ
CX110
10V470μ
CX112
0.1μ
CX113
0.1μ
Y IN
TX01
RX110
68
RX109
1/8W220
CX157
15P
QX103
IMZ1
ZX102
TEM2027D
CX114
0.1μ
DVS AVS AVS VRTS VRT AVS VIN AG AG VRBS VRB DG
CLK DVS D7(MSB) D6 D5 D4 D3 D2 D1 D0(LSB) DG OE
ADY7
ADY6
ADY5
ADY4
ADY3
ADY2
ADY1
ADY0
CX222
0.1μ
VD
TX10
GND
QX105
TC7S66F
VDD
VSS
CX119
0.1μ
LX210
TEM2117T
LX209
TEM2117T
CX223
0.1μ
CX224
0.1μ
LX105
TEM2117T
TX08
GND
YIN7 YIN6 YIN5 YIN4 YIN3 YIN2 YIN1 YIN0
CIN7 CIN6 CIN5 CIN4 CIN3 CIN2 CIN1 CIN0
CKRY
CKBY
CKY
LX108
TEM2117T
QX112
TC7S66F
CX134
25V0.1μ
RX223
22
CX228
1μ
ADY1 ADY3 ADY4 ADY6
YIN7 YIN5 YIN2 YIN0
QX214
TC74AC74F
1CLR VCC
1D 2CLR
1CK 2D
1PR 2CK
1Q 2PR
1Q̄ 2Q
GND 2Q̄
RX225
22
LX216
TEM2117T
CX233
10V1000μ
IE DIN1 DIN3 DIN4 DIN6 RSTW NC RE DOUT7 DOUT5 VSS DOUT2 DOUT0 SRCK
QX212 MSM5182□1
WE DIN0 DIN2 VCC DIN5 DIN7 SWCK NC OE DOUT6 DOUT4 DOUT3 DOUT1 RSTR
LX215
TEM2117T
ADY0 ADY2 ADY5 ADY7
YIN6 YIN4 YIN3 YIN1
CX230
25V0.1μ
LX212
TEM2117T
RX222
OPEN
LX214
TEM2117T
QX110
TC7S66F
CX129
0.1μ
CX136
0.1μ
CX138
COUT5 COUT6 COUT7
COUT4 COUT3 COUT2 COUT1 COUT0
G4 G5 G6 G7 G8(LSB) GND
COUT7 COUT6 COUT5 COUT4 COUT3
B1 B2 B3 B4 B5
B6 B7 B8(LSB)
G1 G2 G3

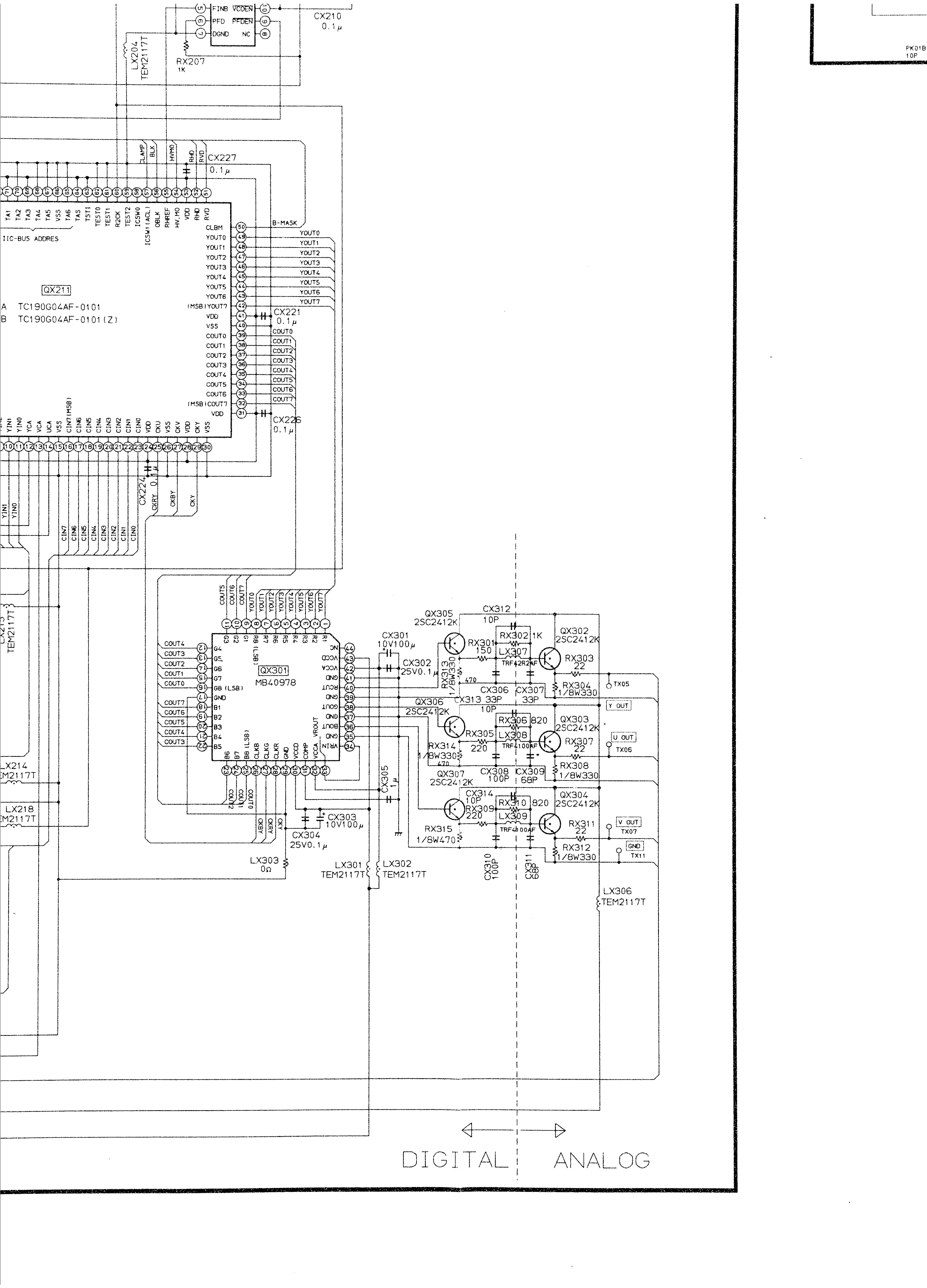

VD
B-MASK
Y
1H
2SC2412K
CK73
0.01
RK128
1/8W1.2K
RK130
1K
RK131
47K
QK45
2SA1162Y
or 2SA1037K
RK129
1/8W 47K
QK47
2SC2712Y
or
2SC2412K
RK132
39K
RK138
3.9K
QK19
XN4401
RK133
5.6K
RK134
470
QK49
XN4501
RK135
1.5K
QK50
XN4401
RK136
5.6K
RK137
470
+5V
LK05
PL-10
+9V
RK98 100
LK02
PL-100
CK30
25V33μ
PK01B
10P
CW
SCP
Y
G
I
LX203
TEM2117T
QX205
TLC2932IPW
DVCC
SEL
VCO
FINA
FINB
PFD
DGND
VCOVDD
RBIAS
VCOIN
VCOG
VCOEN
PFDEN
NC
RX208
3.3K
CX212
10V100μ
RX209
680
CX211 10V10μ
CX210
0.1μ
ZX203
TEN2027D
CX209
0.1μ
LX204
TEM2117T
RX207
1K
CLAMP
BLK
HVMO
RHD
RVD
CX227
0.1μ
TST1
TEST0
TEST1
R2CK
TEST2
ICSW0
ICSW1(ACL)
OBLK
RHREF
HV.MO
VDD
RHD
RVD
CLBM
YOUT0
YOUT1
YOUT2
YOUT3
YOUT4
YOUT5
YOUT6
(MSB)YOUT7
VDD
VSS
COUT0
COUT1
COUT2
COUT3
COUT4
COUT5
COUT6
(MSB)COUT7
VDD
B-MASK
CX221
0.1μ
0101
0101(Z)
CX226
0.1μ
CIN5
CIN4
CIN3
CIN2
CIN1
CIN0
VDD
CKU
VSS
CKV
VDD
CKY
VSS
CX224
0.1μ
CKRY
CKBY
CKY
CIN4
CIN3
CIN2
CIN1
CIN0
QX301
MB40978
G3
G2
G1
R8 (LSB)
R7
R6
R5
R4
R3
R2
R1
G4
G5
G6
G7
G8 (LSB)
GND
B1
B2
B3
B4
B5
B6
B7
B8 (LSB)
CLKB
CLKG
CLKR
GND
VCCD
COMP
VCCA
VRIN
VROUT
NC
VCCD
VCCA
GND
ROUT
GND
GOUT
GND
BOUT
GND
CX301
10V100μ
CX302
25V0.1μ
QX305
2SC2412K
CX312
10P
RX301
150
RX302 1K
LX307
TRF42R2AF
QX302
2SC2412K
RX303
22
RX313
1/8W330
470
CX306
CX307
CX313 33P
33P
RX304
1/8W330
TX05
Y OUT
QX306
2SC2412K
10P
RX306 820
QX303
2SC2412K
RX305
220
LX308
TRF4100AF
RX307
22
U OUT
TX06
RX314
1/8W330
470
QX307
2SC2412K
CX308
100P
CX309
68P
RX308
1/8W330
CX305
1μ
CX314

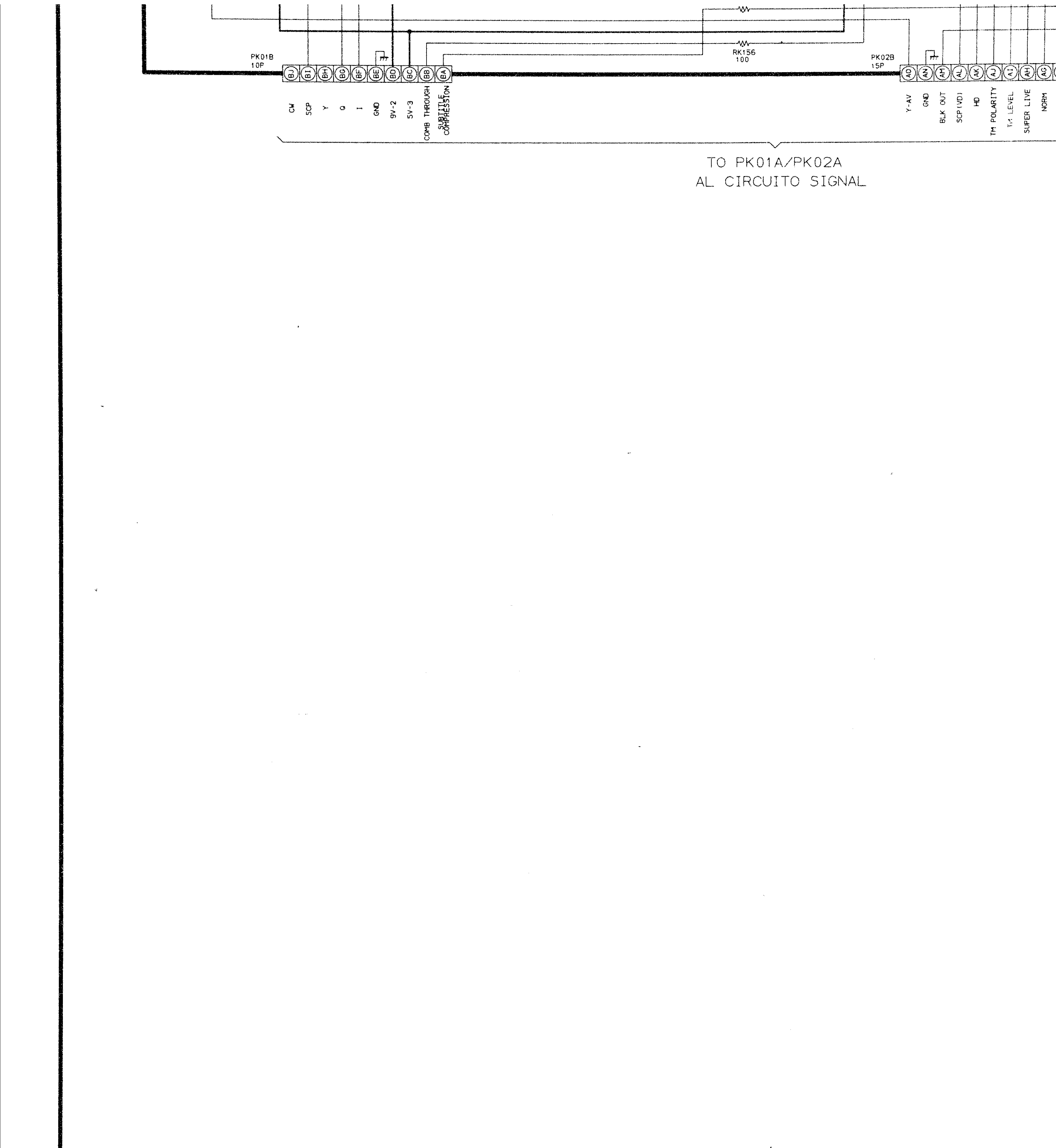

+5V
LK05
PL-10
CK59
16V10μ
CK60
25V0.1
RK79
1K
DK08
1SS353
or MA111
CK88
OPEN
RK150
4.7K
QK40
2SC2712Y
or 2SC2412K
RK78
OPEN
RK80
22K
CK61
OPEN
CK62
100P
RK151
47K
RK82
68K
QK61
2SC2712Y
or 2SC2412K
RK165
1/8W10K
VDD
CL
D
CK
PR
Q
GND
QK11 TC74HC74AP
CK87
25V0.1
DK13
1SS353
RK179
1/8W22K
+9V
RK84
2.2K
RK85
2.7K
QK12
XN4401
RK87
6.8K
DK10
1SS353
or MA111
QK41
2SC2712Y
or 2SC2412K
RK83
6.8K
RK81
1K
RK91
1.2K
QK29
2SA1162Y
or 2SA1037K
RK92
100
RK98 100
RK62
1K
RK64
1.5K
RK66
4.7K
QK39
2SC2712Y
or
2SC2412K
QK08
XN4401
RK65
3.3K
CK84
10PF
RK164
100
RK63
2.2K
CK18
16V100μ
CK19
0.01
LK02
PL-100
CK30
25V33μ
LK01
PL-10
RK163
100
RK156
100
CK21
100
RK143
1K
QK10
2SC2712Y
RK144
47K
RK60
10K
or 2SA10
QK32
2SC2712Y
or
2SC2412K
QK33
2SC2712
or 2SC2412
RK39
10K
QK34
2SC2712Y
or
2SC2412K
RK40
10K
RK76 100
RK77
100
PK01B
10P
BJ BI BH BG BF BE BD BC BB BA
CW
SCP
Y
Q
I
GND
9V-2
5V-3
COMB THROUGH
SUBTITLE COMPRESSION
PK02B
15P
AO AN AM AL AK AJ AI AH AG AF AE AD AC AB AA
Y-AV
GND
BLK OUT
SCP(VD)
HD
TM POLARITY
TM LEVEL
SUPER LIVE
NORM
V SCROLL
GND
RESET
PCLK
SCL1
SDA1
TO PK01A/PK02A
AL CIRCUITO SIGNAL

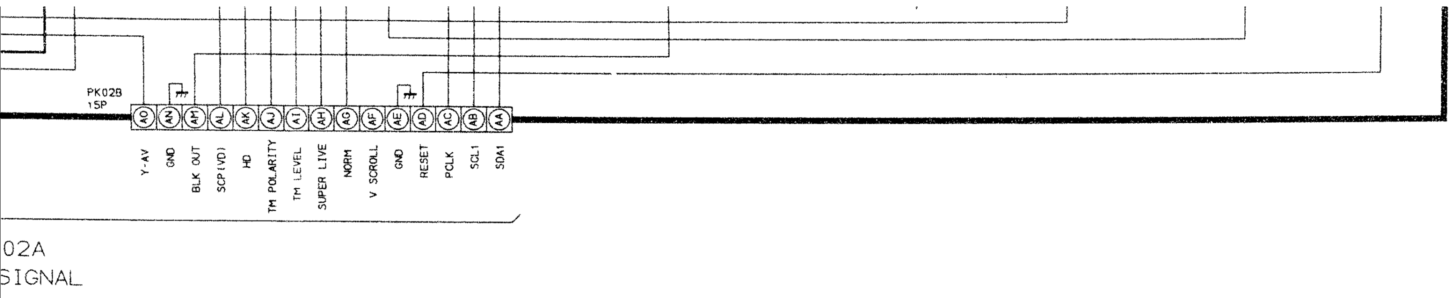

RK29 1/8W10K
PK
CK24 100PF
D6
D5
D4
D3
D2
D1
ED2det
ITGP
TM LEVEL (PWM1)
V SCROLL (PWM0)
CL
DA
TM POLARITY
COMPRESSION MODE
SUPER LIVE
NORM
RK30 1/8W10K
RK31 1/8W10K
RK32 1/8W10K
RK33 1/8W10K
RK34 1/8W10K
RK35 1/8W10K
CK25 100P
CK26 100PF
CK27 100PF
CK28 100PF
CK29 100PF
CK53 100P
CK58 33P
CK57 33P
RK160 1/8W10K
CK83 33PF
RK41 10K
CK31 4.7μ
CK32 470PF
RK43 1/8W1K
CK35 100PF
RK44 1K
CK36 100PF
RK94 1/8W100
CK65 33P
RK45 1K
CK37 100PF
RK46 1K
CK38 100PF
CP
BLK
HSYNC
VSYNC
GND
X IN
X OUT
RESET
INT5
INT3
SCL
SDA
VDD
RK48 1/8W1K
CK40 33PF
RK49 1K
CK41 390P
RK50 1/8W1K
CK42 1000P
TRF1155D
ZK01
TCR1056
ZK02
CK44 0.01
RK53 1/8W1K
CK45 390P
RK52 4.7K
RK54 1/8W10K
CK46 100P
RK55 100Ω
CK47 33PF
RK56 100Ω
CK49 0.01
CK48 33PF
PL-10
LK04
CK50 16V10μ
CK51 0.01
QK06
(RA) TMP87CH36N-3340 (23905732)
(RB) TMP87PM36N-4 (23905833)
RK162 1/8W1K
CK85 33PF
RK51 4.7K
QK07 PST523D
CK43 0.01
DK13 1SS353
CK21 100
RK143 1K
RK144 47K
QK10 2SC2712Y
RK60 10K
RK161 1/8W10K
QK37 2SA1162Y or 2SA1037K
or 2SA1037K
QK32 2SC2712Y or 2SC2412K
RK38 10K
QK33 2SC2712Y or 2SC2412K
RK39 10K
QK34 2SC2712Y or 2SC2412K
RK40 10K
RK158 1K
RK157 1K
QK64 2SA1162Y or 2SA1037K
CK81 OPEN
CK82 1μ
QK65 2SC2712Y or 2SC2412K
RK159 10K
RK76 100
RK77 100
PK02B 15P
AO AN AM AL AK AJ AI AH AG AF AE AD AC AB AA
Y-AV
GND
BLK OUT
SCP(VD)
HD
TM POLARITY
TM LEVEL
SUPER LIVE
NORM
V SCROLL
GND
RESET
PCLK
SCL1
SDA1


4.0 SDA 25
5.08 VD IN 24
NC (SCP) 23
GND 22
1.45 B-MASK 21
0.05 VD OUT 20
0.17 CLAMP 19
1.11 BLK 18
0.32 HD OUT 17
GND 16
33P
CX403 220P
CX402 33P
CX404 220P
CX415 220P
FOR WIDE
CX407 1000P
CX408 220P
CX406 220P
CX405 220P
CX400 220P
LX401 PL-1
LX402 PL-1
LX403 PL-1
LX400 PL-1
LX405 PL-1
LX406 PL-1
LX407 PL-1
LX408 PL-1
LX409 PL-1
RX402 470
RX403 470
RX400 1K
RX405 220
RX406 220
RX407 220
RX408 220
RX409 220
SDA
VD
HVMO
B-MASK
RVD
CL AMP
BLK
RHD
LX101 TEM2117T
QX101 2SC2412K
RX146 47
RX103 1/8W470
ZX101 TEM2027D
NP
CX102 25V4.7μ
CX103 25V0.1μ
RX104 1M
QX102 MM1031XMR
VCC
GND
LX109 TEM2117T
CX104 25V0.1μ
LX102 TEM2117T
RX105 270Ω
RX106 1K
CX107 33P
LX104 6.8μ
CX105 33P
CX106 68P
RX108 330
CX109 NP 2.2μ
QX103 IMZ1
CX108 25V0.1μ
LX103 TEM2117T
CX110 10V470μ
CX112 0.1μ
Y IN
TX01
RX110 68
RX109 1/8W220
CX114
ZX102 TEM2027D
CX115 16V47μ
CX116 16V0.1
QX104 2SC2412K
RX111 560
CX117 16V0.1
CX118 16V100μ
RX112 1/8W220
QX105 TC7S66F
VDD
VSS
CX119
TX08
GND
PX01B 2.5m 15P
2.51 Y IN 15
Y GND 14
5.64 U IN 13
U GND 12
5.64 V IN 11
V GND 10
3.05 Y OUT 9
Y GND 8
3.13 U OUT 7
U GND 6
3.14 V OUT 5
0 V GND 4
9.43 +9V 3
4.94V +5V 2
0 GND 1
Y
I
Q
CX409 12P
CX410 22P
CX411 22P
CX412 22P
CX413 22P
CX414 22P
Y OUT
Y GND
U OUT
U GND
V OUT
V GND
CX806 0.1
ZX801 TEM1012T
CX801 16V470μ
+9V
CX802 0.1μ
CX805 0.1
ZX802 TEM1012T
CX803 10V470μ
+5V
CX804 0.1μ
LX108 TEM2117T
RX127 470
QX111 2SC2412K
CX130 16V100μ
CX132 16V100μ
RX128
CX131 1/8W 470 25V0.1μ
CX133 0.1μ
QX112 TC7S66F
CX134 25V0.1μ
LX106 TEM2117T
QX108 2SC2412K
RX120 47
RX121 1.5K
U IN
TX02
CX120 47P
RX124 OPEN
RX123 330
LX107 27μ
CX125 100P
CX126 270
RX122 OPEN
ZX103 TEM2027D
CX128 50V3.3μ
QX109 IMX1
CX127 0.1
RX125 1K
CX129 0.1μ
RX126 1/8W470
QX110 TC7S66F
RX142 47
CX137 10V100μ
LX110 TEM2117T
LX113 TEM2117T
RX136 47
QX116 2SC2412K
RX137 1.5K
V IN
TX03
ZX104 TEM2027D
CX146 47
RX139 OPEN
RX145 330
LX111 27μ
CX147 100
CX148 270
RX135 OPEN
CX150 50V3.3μ
QX117 IMX1
CX149 0.1μ
RX140 1K
CX151 0.1μ
QX118 TC7S66F
TX04
C IN
CX158 33P
CX153 0.1μ
CX152 16V47μ
RX141 1/8W470
RX143 560
QX119 2SC2412K
CX154 16V100μ
CX155 0.1μ
RX144 1/8W220
QX120 TC7S66F
CX156 25V0.1μ
ANALOG
DIGITAL


2027D
LX202
TEM2117T
RX203
150
RX204
4.7K
PFD
PFDEN
DGND
NC
CX220
0.1μ
SCL
SDA
QX216
TC7532F
ADY6
ADY5
CX232
0.1μF
ADC7
QX211
RA TC190G04AF-0101
RB TC190G04AF-0101(Z)
IIC-BUS ADDRES
DY6
DY7
VDD
REFPC
HIN
NFIIC
TA0
TA1
TA3
TA4
TA5
VSS
TA6
TST1
TEST0
TEST1
R2CK
TEST2
DC7
BCL
RHPOF
QMX
IMX
JCP
HREFO
WCKO
W2CK
VSS
VDD
RST
WCDW
FVIN
RENC
RENY
MRR
WENC
WENY
MWR
TP JCP
VD
CX222
0.1μ
YIN7(MSB)
YIN6
YIN5
YIN4
YIN3
YIN2
YIN1
YIN0
YCA
UCA
CIN7(MSB)
CIN6
CIN5
CIN4
CIN3
CIN2
CIN1
CIN0
TX10
GND
LX210
TEM2117T
LX209
TEM2117T
CX223
0.1μ
CX224
LX204
CLAMP
LX103
TEM2117T
RX108
330
CX107
33P
CX109
NP 2.2μ
LX104
6.8μ
RX106
1K
CX106
68P
CX108
25V0.1μ
QX103
IMZ1
CX111
0.1μ
CX110
10V470μ
QX106
TLC55101
CX112
0.1μ
CX113
0.1μ
Y IN
TX01
RX110
68
CX157
15P
RX109
1/8W220
CX114
0.1μ
CX115
16V47μ
CX116
16V0.1
ZX102
TEM2027D
QX104
2SC2412K
QX105
TC7S66F
CX117
16V0.1
CX118
16V100μ
RX112
1/8W220
CX119
0.1μ
TX08
GND
LX105
TEM2117T
DVS
AVS
VRTS
VRT
VIN
AG
VRBS
VRB
DG
CLK
D7(MSB)
D0(LSB)
OE
ADY7
ADY6
ADY5
ADY4
ADY3
ADY2
ADY1
ADY0
LX108
TEM2117T
QX112
TC7S66F
CX132
16V100μ
CX134
25V0.1μ
CX133
0.1μ
QX109
IMX1
CX128
QX214
TC74AC74F
1CLR
1D
1CK
1PR
1Q
GND
VCC
2CLR
2D
2CK
2PR
2Q
RX225
22
CX230
25V0.1μ
LX212
TEM2117T
CX129
0.1μ
QX110
TC7S66F
CX136
0.1μ
RX125
1K
RX126
1/8W470
RX142
47
CX137
10V100μ
CX138
0.1μ
QX114
TLC55101
CX150
QX117
IMX1
CX139
0.1μ
CX140
0.1μ
CX141
0.1μ
CX151
0.1μ
QX118
TC7S66F
TX04
C IN
CX158
33P
ADC7
ADC6
ADC5
ADC4
ADC3
ADC2
ADC1
ADC0
RX140
1K
CX153
0.1μ
RX141
1/8W470
QX119
2412K
QX120
TC7S66F
CX156
25V0.1μ
GND
TX09
LX112
OPEN
CX155
0.1μ
RX144
1/8W220
RX223
22
CX228
1μ
CX233
10V1000μ
LX216
TEM2117T
LX215
TEM2117T
QX212
MSM518221
WE
DIN0
DIN1
DIN2
DIN3
DIN4
DIN5
DIN6
DIN7
VCC
SWCK
RSTW
NC
RE
OE
DOUT0
DOUT1
DOUT2
DOUT3
DOUT4
DOUT5
DOUT6
DOUT7
VSS
SRCK
RSTR
RX222
OPEN
LX214
TEM2117T
LX218
TEM2117T
CX234
10V1000μ
CX229
1μ
LX217
TEM2117T
QX213
MSM518221


FINB
VCOEN
PFD
PFDEN
DGND
NC
CX210
0.1μ
LX204
TEM2117T
RX207
1K
CLAMP
BLK
HVMO
RHD
RVD
CX227
0.1μ
IIC-BUS ADDRES
QX211
A TC190G04AF-0101
B TC190G04AF-0101(Z)
TA1
TA2
TA3
TA4
TA5
VSS
TA6
TA5
TST1
TEST0
TEST1
R2CK
TEST2
IC5W0
IC5W1(ACL)
OBLK
RHREF
HV.MO
VDD
RHD
RVD
CLBM
YOUT0
YOUT1
YOUT2
YOUT3
YOUT4
YOUT5
YOUT6
(MSB)YOUT7
VDD
VSS
COUT0
COUT1
COUT2
COUT3
COUT4
COUT5
COUT6
(MSB)COUT7
VDD
B-MASK
CX221
0.1μ
CX226
0.1μ
YIN1
YIN0
YCA
VCA
UCA
VSS
CIN7(MSB)
CIN6
CIN5
CIN4
CIN3
CIN2
CIN1
CIN0
VDD
CKU
VSS
CKV
VDD
CKY
VSS
CX224
0.1μ
CKRY
CKBY
CKY
LX215
TEM2117T
LX214
TEM2117T
LX218
TEM2117T
QX301
MB40978
G3
G2
G1
R8(LSB)
R7
R6
R5
R4
R3
R2
R1
NC
VCCD
VCCA
GND
RCUT
GND
GOUT
GND
BOUT
GND
VRIN
VROUT
G4
G5
G6
G7
G8(LSB)
GND
B1
B2
B3
B4
B5
B6
B7
B8(LSB)
CLKB
CLKG
CLKR
GND
VCCD
COMP
VCCA
CX301
10V100μ
CX302
25V0.1μ
CX303
10V100μ
CX304
25V0.1μ
CX305
1μ
LX303
0Ω
LX301
TEM2117T
LX302
TEM2117T
QX305
2SC2412K
CX312
10P
RX301
150
RX302
1K
LX307
TRF42R2AF
QX302
2SC2412K
RX303
22
RX313
1/8W330
470
RX304
1/8W330
TX05
CX306
33P
CX307
33P
CX313 33P
10P
Y OUT
QX306
2SC2412K
RX305
220
RX306
820
LX308
TRF4100AF
QX303
2SC2412K
RX307
22
U OUT
TX06
RX314
1/8W330
470
RX308
1/8W330
CX308
100P
CX309
68P
QX307
2SC2412K
CX314
10P
RX309
220
RX310
820
LX309
TRF4100AF
QX304
2SC2412K
RX315
1/8W470
RX311
22
V OUT
TX07
RX312
1/8W330
GND
TX11
CX310
100P
CX311
68P
LX306
TEM2117T
PK01B
10P
DIGITAL
ANALOG


PK01B
10P
BJ
BI
BH
BG
BF
BE
BD
BC
BB
BA
CW
SCP
Y
Q
I
GND
9V-2
5V-3
COMB THROUGH
SUBTITLE COMPRESSION
RK156
100
PK02B
15P
AO
AN
AM
AL
AK
AJ
AI
AH
AG
Y-AV
GND
BLK OUT
SCP(VD)
HD
TM POLARITY
TM LEVEL
SUPER LIVE
NORM
TO PK01A/PK02A
AL CIRCUITO SIGNAL


PK02B
15P
AO
AN
AM
AL
AK
AJ
AI
AH
AG
AF
AE
AD
AC
AB
AA
Y-AV
GND
BLK OUT
SCP(VD)
HD
TM POLARITY
TM LEVEL
SUPER LIVE
NORM
V SCROLL
GND
RESET
PCLK
SCL1
SDA1
02A
SIGNAL